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THE YEARBOOK OF
THE UNIVERSITIES OF THE EMPIRE

SECOND CONGRESS OF THE UNIVERSITIES
OF THE EMPIRE, 1921

**REPORT OF PROCEEDINGS, INCLUDING
ADDRESSES, PAPERS, AND DISCUSSIONS.**

(See page 6 of this Volume)

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LONDON G BELL AND SONS, LTD

THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1924

EDITED BY W. H. DAWSON AND
PUBLISHED FOR THE
UNIVERSITIES BUREAU OF
THE BRITISH EMPIRE



LONDON
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PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in the affairs of any except their own, the Calendars sufficed, but there are now 67, and each takes a growing interest in the others. The Calendars constitute a library of no mean dimensions—some 50,000 pages—and hardly anywhere except at the Universities Bureau are they all accessible. Much of their contents is of strictly local interest. In the *Yearbook* an attempt is made to extract from each of these bulky volumes such information as is likely to prove of interest to members of other Universities and Colleges, to Government Departments, Clubs, schoolmasters, and the public generally. It would be impossible to present a conspectus of this kind in a volume of manageable dimensions without resorting to the use of abbreviations and other devices for saving space. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

In chapters introductory to the sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa, and of India, is collected such information regarding their history, regulations, and practice as they share in common. Each section comprises three parts.

(1) A directory of the officers and members of the staff of the University. Much trouble has been taken in preparing these directories to ascertain the sources of the various degrees held by teachers, since such information gives in a small space the educational history of their holders. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving.

With the exception of honours conferred by H M the King, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess. It is, for example, of interest to learn that a medical teacher of a university overseas holds diplomas of the Royal Colleges, whereas the addition of the letters M R C S, L R C P, to the name of a teacher in the

United Kingdom who is also M D cannot be said to convey information of importance

(2) Under the heading "General Information," an account is given of the equipment in libraries, museums, laboratories, etc., of the university, the degrees, diplomas, and certificates which it confers, its composition fees, scholarships open to graduates, residential accommodation, extra-mural work, publications, etc

(3) The accounts of the universities which hold good with modifications from one issue to another are followed by reports of events of outstanding interest which occurred during the past academic year. They include statistics of the numbers of students in attendance and degrees conferred. These annual reports will be of great importance to future historians of the universities. In the present issue a comparison of student enrolments and degrees conferred in 1912-13 and 1922-23 is given. See Appendix XXIX

Appendices may be classified as (a) Summaries of regulations for the diplomas of the Medical Colleges and other Associations and Institutions of the United Kingdom, and the conditions governing admission to various professions and careers for which university studies are a fitting preparation, (b) admission of students from abroad into the universities of the United Kingdom, (c) lists of inter-university scholarships and fellowships, and grants for research, (d) brief accounts of universities in foreign countries, (e) lists of professional schools of the universities of the United Kingdom and the distribution of subjects in which these universities may be said to specialize, (f) university extension lecturers

In the present issue appear for the first time an account of the new University of Nagpur, Appendices XXIX and XXX, and a General Index. The London section has been rearranged on what will, it is hoped, be found a more convenient plan

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THE UNIVERSITIES BUREAU OF THE EMPIRE

At the final, Delegates', meeting of the Congress of 1912 it was resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. From its inception until November 1919 the Bureau was, by the great courtesy of the Director, allowed the use of a room in the Imperial Institute. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance. The Committee thereupon purchased the lease of No. 50 Russell Square. Offices in this building have been let to—

THE BRITISH DIVISION OF THE AMERICAN UNIVERSITY UNION
Director—CLYDE A. DUNIWAY, A.M., Ph.D., Hon. LL.D. *Assistant Director*—R. H. SIMPSON, M.A.

THE OFFICE NATIONAL DES UNIVERSITÉS ET ÉCOLES FRANÇAISES
Director—A. PHILIBERT, L. ès L., L. en D.

THE ANGLO-DANISH BUREAU, ESTABLISHED BY THE DANISH STUDENTS' INTERNATIONAL COMMITTEE *Director*—J. H. HELWEG, Cand. Mag.

COMMITTEE

(Appointed in accordance with a resolution of the Delegates to the Congress of the Universities of the Empire, at a Meeting in London on July 5, 1912)

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E M WALKER, M A , Pro-Provost of Queen's, representing Oxford

Prof J T WILSON, M A , F R S , representing Australia

Secretary ALEX HILL, M A , M D , F R C S

UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL SUMMARY—ADMISSION AS AN UNDERGRADUATE—ADMISSION OF STUDENTS FROM ABROAD—NUMBER OF FULL-TIME STUDENTS—TERMS—FEES—CONFERENCES—STANDING COMMITTEE OF VICE-CHANCELORS—CONGRESS OF 1921—INTERNATIONAL CONFERENCES—INTERCHANGING OF TEACHERS AND STUDENTS—UNIVERSITY GRANTS—REPRESENTATIVES IN PARLIAMENT—DEGREES—NATIONAL UNIONS OF STUDENTS

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the “trivium”—GRAMMAR, LOGIC, and RHETORIC, and the “quadrivium”—ARITHMETIC, GEOMETRY, MUSIC, and ASTRONOMY) the Universities added the three higher “Faculties” of PHILOSOPHY, LAW, and MEDICINE in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth

century the teaching in the Universities had become mainly traditional and formal, and they were rapidly losing their hold on the national life

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession, and the few Denominational tests retained by the older Universities until 1871 were then abolished. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honours examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects and the throwing open of scholarships to students of such subjects, removed practically all obligations to take orders in the Church of England, and did much to make the Universities accessible to all classes of the community.

Meanwhile the foundation in 1828 on a strictly undenominational basis of what has now become University College, London, provided a teaching institution of University rank free from all restriction of tests. The University of Durham obtained its charter in 1837. In its original conception it followed closely the lines of Oxford. It was partly endowed out of the funds of the Sec and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851, Yorkshire College, Leeds, 1874, University College, Bristol, 1876, Firth College, Sheffield, 1879, Mason College, Birmingham, 1880, University College, Liverpool, 1881. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries and from the first laid stress upon the study of mathematical, scientific, and modern subjects. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, together with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry. A University of Wales was projected early in the fifteenth century and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, and Bangor were founded in 1872, 1883, and 1884 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels. The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the then recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish Bishops

in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast

WOMEN were first admitted to Degrees by the University of London in 1878 Bedford College had already been founded in 1849, the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886, and King's in 1902 Of the Cambridge colleges Girton originated at Hitchin in 1869, and was removed to the near neighbourhood of Cambridge in 1873, Newnham was founded in 1880 The colleges at Oxford were opened, Lady Margaret in 1878, Somerville in 1879, St Hugh's in 1886, and St Hilda's in 1893 Cambridge admitted women informally to Tripos examinations in 1872 and adopted, October 1921, a proposal that it should take power to confer on them by diploma Titles of Degrees Oxford admitted them to examinations in 1884 and to degrees and full membership in 1920 Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904, and to all the modern Universities from their foundation

Unlike those of most other countries, the Univs of the United Kingdom have been, since their origin, independent of State control Another distinguishing characteristic of British Univs, as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts

ADMISSION AS AN UNDERGRADUATE Before inserting a student's name in *matricula* all Univs exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree

Matriculation examinations covering the usual subjects of education in a secondary school are held by the Univs of Durham, London, Wales, Belfast, Dublin, Ireland (N U I), and the Joint Board of Manchester, Liverpool, Leeds, Sheffield, and Birmingham Analogous exams are held by Oxford ("Responsions"), Cambridge ("Previous Examn"), and the Scottish Univs Entrance Board ("Preliminary Examn"), and these must be passed (or exemption on the ground of having passed equivalent exams must be obtained) by all students proceeding to degrees, though not necessarily before entering upon courses of study in the Univs Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent exams a condition of admission to the College Bristol has discontinued its matric examn as superfluous in view of the institution of the School Certificate and Higher Certif exams (v *infra*), and the admission to them of candidates not presented by schools Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned

A *Matriculation Examination for persons of mature years* has been instituted by the above-mentioned Joint Board (v App XXI), and

Belfast Wales permits matriculation of persons of 23 or more years of age on special recommendation by a constituent College. See also p 95

School Examinations—England In 1918 there came into operation a scheme originated by the Board of Education in consultation with all the Univs of England for co-ordinating Secondary School exams. Under this scheme the following are recognized by the Board as approved—

I As "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in the three main groups of School subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ,—The "School Certificate" exams of the Oxford and Cambridge Schools Exams Board, of the Oxford Delegacy of Local Exams and the Cambridge Local Exams Syndicate (formerly known as "Senior Local" exams), of the Univs of Bristol and Durham, and of the Northern (Birm, Leeds, Liv, Manc, Sheff) Univs Joint Matricn Board, "The General School" examn of London, and the School Certificate examn of the Central Welsh Board.

II As "Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn, followed a more specialized course,—The "Higher Certificate" exams of the Oxford and Cambridge Schools Exams Board, Bristol Durham, the Northern Univs Joint Board, London, Oxford (Delegacy for Local Exams) Cambridge (Syndicate for Local Exams), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a "Secondary School Examinations Council" composed of 23 representatives of the Examining Bodies, County Councils Assocn, Assocn of Municipal Corporations, Assocn of Education Committees, and Teachers' Registration Council. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies (supplied in all cases by the Univs), that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate, and that estimates of the merits of their candidates in each of the subjects offered by them if submitted by Head Masters and Head Mistresses are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants to take these exams, but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn fees of each pupil so entered. Schools are warned against determining their organization or curriculum exclusively or principally with reference to the requirements of any examn. The arrangement of organization or curriculum for the purpose of preparing any pupils or Form for any examn not approved by the Board is expressly forbidden.

Among the functions of the Secondary School Exams Council is

negotiation with Univs. and Professional Bodies for the acceptance of the examn certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (v. Appendices), as exempting from entrance examns. The "Second Examinations" are also recognized by many Univs. for exemption from Intermediate Exams. and for admission to Honours courses, etc.

Wales. The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn., so, also, are certifs. of the other First Examns. (except Durham's), the Scotch Educn. Dept's Leaving Certif. (Higher Grade), and the Intermediate Examn. (Senior Grade) of the Ministry of Educn. for Northern Ireland.

Scotland. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board, which has superseded the Joint Board of Examiners for the Scottish Univs., will provide by "General Regulations" for the recognition of Group Certifs. of the Scotch Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It will similarly provide for the recognition of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions will be provided for by "Special" Regns. In the meanwhile, the Preliminary Examn. Regns. of the Joint Board are continued (vide p. 220).

Ireland. The Senior Grade examn. of the Intermediate Education Board of Ireland is accepted, subject for subject, in lieu of the matricn. examns. of Dublin, Nat. Univ. of Ireland, and (subject to special conditions in respect of Maths.) Belfast. Belfast and the N.U.I. also accept, subject for subject, the Scottish Leaving Certif. (Higher or Hons.), the Higher Certif. of the Ox. and Camb. Schools Examn. Board, and (Belfast only) the Bristol School Certif. For admission to the Univ. of Dublin the Senior Lecturer is now allowed to recognize examns. as "equivalent" to the Senior Grade Intermediate, and does so recognize the Scottish Leaving Certificate and others.

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. Intending students should apply for information to the Registrar of the Univ. in which they desire to be

matriculated A summary of existing regulations is given in Appendix XXIII

The NUMBER OF FULL-TIME STUDENTS in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1921-22 as 36,783, including 10,889 women The returns do not include the students of the Irish Universities, Oxford, Cambridge, Guy's Hospital Medical School and some other schools of the University of London, and University College, Exeter If the figures for these institutions are added a total of 54,000 is obtained—smaller, by 1000, than the total for 1920-21 The total may be distributed as follows Oxford and Cambridge (including 1400 women), 10,800, London, 10,900, North Midlands (Birmingham, Leeds, Liverpool, Manchester, and Sheffield Universities, the Manchester College of Technology and University College, Nottingham), 9,650, the rest of England, 3750, Wales, 2850, Scotland, 11,400, Ireland, 4650 The Grants Committee classify the 36,783 full-time students included in their tables Medicine, including Dentistry, 11,612, of whom 2595 were women, Arts, Theology, Law, Music, Commerce, Economics, and Education, 12,057 (6252 women); Pure Science, 6146 (1851 women), Engineering, Applied Chemistry, etc., 6960 (191 women). The above statistics do not include the students of the institutions other than Universities and University Colleges in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc., nor students reading privately for the external degrees of the University of London, for the Bar, etc Another consideration which makes difficult comparison with statistics of other countries is that the work of the higher forms of many of our secondary and "public" schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of Universities elsewhere, *e.g.* in America In the United States of America in 1920 there were 334,000 men and 188,000 women in 670 universities, colleges, and professional schools. In many of these institutions the enrolment of part-time students constitutes a very large proportion of the total

NATIONAL UNIONS OF STUDENTS of England and Wales and of Scotland Vide p. 19

TERMS. The academic year is divided into three terms, which run from about Oct 1 to the middle of Dec, middle of Jan to end of March; middle of April to end of first week in July.

FEES are charged by all Universities. They vary somewhat in the different Univs., but are, on the average, for Arts £30, for Science £36, for Engineering or for Medicine £30 to £60 per annum in English Univs In Scottish, Welsh, and Irish Univs. the fees are lower.

CONFERENCES In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor, obtainable by graduates of British and foreign Univs after a course of advanced study and research The conditions and regulations for such a degree were further considered at

adjourned meetings held on May 10, 1918, Jan 24, 1919, and March 14, 1919. The resulting legislation is summarized on p 14. Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions, and other matters have been considered by Conferences specially convened at various times.

In May 1918 Mr Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Govt of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs the desirability of establishing a representative body to which matters of interest to the Univs might be referred by Govt Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and represent them in their relations with the Univs of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities' Bureau, be appointed a Standing Committee to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors has dealt with such matters as the presentation of the case for Increased Grants to Univs and Univ Colleges, leading to the Deputation to the President of the Board of Education and the Chancellor of the Exchequer which was received in Nov 1918, the relations of the Univs and Univ Colleges to national schemes for the Promotion of Research, the question of controlling the number of students in professional and other subjects, the Recognition of the Special Army Education Certif, as qualifying for matriculation, Fees for Courses of Undergraduate and for Post-graduate Study and the possibility of adopting a uniform scale in each of the several Faculties of all Univs of the U.K.; the relations of the Univs to Training Colleges for Teachers; qualification for admission to courses leading to the Ph D degree, recognition of foreign school-leaving certificates as qualifying for matriculation, salaries of teachers, recognition of records of students from Australia, Canada, and S Africa, specialization in certain subjects of study by certain Universities*, the mutual recognition of Matriculation examns. and Degree courses of study.

PROCEEDINGS OF THE STANDING COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS IN 1923. Amongst the more important matters dealt with were. Income-tax on funds invested for provision of pensions, Inhabited House Duty on hostels and other legal liabilities of Universities, the replenishing of the library of the Univ of Tokio, conference in connexion with the British Empire Exhibition, recognition of Indian University Degrees and Examns.

* Vide Appendix XXVII. .

At the ANNUAL CONFERENCE of the Univs of Great Britain and Ireland held on May 12, 1923, the subjects discussed were (1) the financial outlook of the Universities, (2) Music as a University subject, (3) the Universities and training for administrative and municipal life, (4) Labour and the Universities. The President of the Board of Education, Rt Hon Edward Wood, was present, and took part in the discussion. An abridged report of the proceedings was printed. Copies are obtainable from the Universities Bureau, 50 Russell Square, price 1s.

The SECOND CONGRESS of the Univs of the Empire met in Oxford on July 5 to 8, 1921. All members received, and upwards of 300 accepted, offers of hospitality, either from a College or from a resident member of the Univ, for the four days during which Congress was to sit. Including members of the Univ of Oxford, who attended without enrolment, and those who returned to London and other places for the night, the attendance numbered about 550. The 18 Home Univs and 36 of the Univs overseas were represented, the visitors from overseas numbering 100. Subjects discussed "The Universities and the Balance of Studies," Chairman, the Marquess Curzon of Kedleston, Chancellor of the Univ of Oxford, "The Universities and the Teaching of Civics, Politics, and Social Economics," and "The Universities and Secondary Education," Chairman, Mr A J Balfour, Chancellor of the Univ of Cambridge and of the Univ of Edinburgh, "The Universities and Adult Education," Chairman, Viscount Haldane, Chancellor of the University of Bristol, "The Universities and Technological Education," Chairman, the Marquess of Crewe, Chancellor of the Univ of Sheffield, "The Universities and Training for Commerce, Industry, and Administration" and "The Universities and the Training of School Teachers," Chairman, Dr J C Irvine, Principal, in the place of the late Lord Balfour of Burleigh, Chancellor of the Univ of St Andrews, "University Finance," Chairman, Sir Robert Stout, Chancellor of the Univ of New Zealand, "The Universities and Research," Chairman, Lord Robert Cecil, Chancellor of the Univ of Birmingham, "Interchange of Teachers and Students," Chairman, Lord Kenyon, Pro-Chancellor of the Univ of Wales.

Report of the Proceedings of the Congress, G Bell & Sons, London, pp 452 and lv, price £1 1s.

INTERNATIONAL CONFERENCES. Following the Mission to America already referred to, the British Univs in May 1919 accepted an invitation to appoint a delegation to visit the Univs of France as guests of the French Republic. In the autumn of 1919 a similar invitation was accepted from the Belgian Govt. In July 1920, 17 Professors of English, and in July 1921, 32 Professors of History, from many parts of the U S A and the British Dominions overseas, met their colleagues of the Universities of the U K in conference at the invitation of the University of London to discuss methods of research and teaching and to elaborate plans of co-operation. The Conference of 1921 synchronized with the opening of the University of London Institute of Historical Research. A Conference of British and Swiss Universities was held at

Bâle in 1922 By invitation of Columbia University a Conference of British and American teachers of English was held in New York in June 1923

INTERCHANGE OF TEACHERS AND STUDENTS between the Univs of the King's Dominions overseas and of foreign countries and the Univs of the U K In May 1919 a Committee was established for the purpose of promoting interchange This Committee was discharged in March 1922 and replaced by another consisting of the Interchange Correspondents of the Bureau in the various Univs

PARLIAMENTARY GRANTS TO UNIVS AND UNIV COLLEGES Prior to 1889 the English Univs and Univ Colls were dependent for their incomes upon endowments, subscriptions and students' fees In that year a Treasury Grant of £15,000 p a was made to the English Univ Colls and the College at Dundee At the same date each of the three Welsh Univ Colls was receiving £4000 p a, and the Scotch Univs a statutable Grant of £42,000, to which was added in 1892 under the Education and Local Taxation Account (Scotland) Act an annual Subsidy of £30,000 Between 1826 and 1895 sums amounting to £380,000 were contributed by Government towards the cost of enlarging the buildings of the Scottish Univs In Ireland the Queen's Colleges of Belfast, Cork, and Galway were established in 1845, the three buildings costing a total of £100,000 Each College received a Government Grant of £7000 p a The Queen's Univ was established in 1850, as an examining body Its annual Subsidy, varying with the estimates, never exceeded £5000 In 1879 the Queen's Univ was replaced by the Royal Univ, also an examining body, but differing from the Queen's Univ in that students other than those of the Queen's Colls were admitted to its exams It also gave fellowships, scholarships, and prizes Until 1883, when, in accordance with the Act of Parliament by which it was established, it obtained its income of £20,000 p a out of funds released by the disestablishment of the Church of Ireland, its expenses were met in the same way as in the case of the Queen's Univ

In 1896 two Commissioners were appointed by the Treasury to inspect the equipment and report upon the work of the 12 Univ Colls in England and at Dundee participating in the Grant (£15,000 p a) of 1889 and 2 which were claimants for Grants In recognition of their increased activities and of additional support received from rates and private benefactions the total Grant was increased to £25,000 p a In their Report on the Univ of Birmingham (into which the Mason College had been transformed in 1900), the 11 other Univ Colls to which Grants had been assigned, and 3 claimants the two Commissioners appointed in 1901 submitted evidence of growth qualifying for increased financial aid, but owing to the South African War no action, with the exception of the addition of the Univ Colls of Reading and Southampton to the list, each receiving £1000, was taken by the Treasury until 1905, when the total Grant was increased to £100,000 In Jan 1906 a Permanent Committee was appointed by the Treasury "to advise the Department as to the distribution of the Grant in aid of Colleges furnishing Education of a Univ Standard" The Committee

forthwith proceeded to appoint two inspectors to report upon the 14 Univs and Univ Colls receiving Grants and 3 claimants. By this time, in addition to Birmingham, Leeds, Liverpool, Manchester and Sheffield possessed Univs, to each of which £2000 p a had been granted towards the cost of examns and the giving of degrees. The Univ of London also received £8000 p a.

In 1909-10 the Grant to the English Univs and Univ Colls and to Dundee was raised to £150,000. In 1907 a Treasury Committee was appointed "to inquire and report upon the University of Wales and its constituent Colleges" (The present Secretary to the Bureau was one of the two Commissioners in 1901 and again in 1906 and a member of this Committee). Following the issue of the Committee's Report in 1909 the Grant to the 3 Welsh Colleges was increased to £25,000. In 1919 the Advisory Committee was dissolved and the Univ Grants Committee appointed "to inquire into the financial needs of Univ Education in the United Kingdom and to advise the Government as to the application of any Grants that may be made by Parliament towards meeting them". The total Grant was increased to £1,000,000. Including Emergency Grants to Cambridge, Oxford, and Trinity College, Dublin, the sums assigned in 1920-21 were Annual Grants £909,240 (including Ireland £111,000), Non-recurrent Grants £304,000 (including Ireland £67,000). The total Grant for 1921-22 was £1,500,000, and in addition a sum of £500,000 was provided to assist the Institutions to provide retrospective superannuation benefit for their staffs, the grant for 1922-23 for Great Britain only was £1,169,000, which is also the amount of the estimate for 1923-24.

REPRESENTATIVES IN PARLIAMENT Oxford (2), Cambridge (2), London, Wales, Scottish (3), Dublin, National of Ireland, Belfast—v the sections relating to these Univs.

Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield—Rt Hon H A L FISHER, M A, Sir MARTIN CONWAY, M A.

THE VARIOUS DEGREES CONFERRED BY THE UNIVERSITIES

THE older Universities have developed out of the Univs of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs in other lands. Their titles of degrees afford an illustration of this. A Univ of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examns. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted

into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master, or professor. Still following this ancient usage, the degree in Scotland is the mastership, M A. In Oxford, Cambridge, and Dublin, where the examn for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn after an interval of two or three years, but in no case less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs have divided the degree into stages—usually described as the “first” and “higher” degrees—Bachelorship, Mastership, and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years’ Univ course.

At Oxford, Cambridge, Dublin, and in the Scottish Univs the Faculty of Arts is not subdivided. Except in Scotland, where the mastership (M A) takes the place of the bachelorship, B A is the “first degree,” whether the course leading to it be literary or scientific. In Trinity College, Dublin, it is necessary to secure the B A before proceeding to any other degree (except in music). In Scotland, as alternatives to the M A, the student may take as his “first degree” the B Sc, pure or applied (the standard being that of M A with Honours), the B L, or the B Com. At St Andrews the B Phil or the B Litt may be taken either conjointly with, or after, the M A. At Cambridge there is no B Sc. At Oxford there are special degrees, B Litt and B Sc (v. *infra*).

At all other Univs a course in Arts leads to the B A, in Science to the B Sc, in Commerce to the B Com, and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor’s degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first.

Bachelor of Arts. B A

Bachelor of Science. B Sc, Sc B Dub

Bachelor of Science in its various applications. B Sc (Engineering), B Eng Liv, Sheff, B A I Dub, B Sc (Metallurgy), B Met Sheff, B Sc (Mining), B Sc (Mining Engineering) Glas, B Sc Tech, B Sc (Applied Chemistry), B Sc (Naval Architecture), B Sc (Veterinary Science), B V Sc Liv, B Sc Agr, B Agr Bris, Agr B Dub, B Agr Sc N U I, B Sc (Forestry), Agr B (Forestry) Dub, B Sc (Horticulture), B Sc (Estate Management), B Sc (Economics), B Sc (Public Health), B Hy Durh, B Sc (Pharmacy)

Bachelor of Commerce. B Com, B Comm N U I, B Com Sc Belf

Bachelor of Architecture. B Arch

Bachelor of Dental Science. B D S, B Ch D, Leeds, B Dent Sc Dub

Bachelor of Education. B Ed (of the Scottish Univs, two years after a first degree)

In Theology the title of the first degree is B D. In Law it is LL B,

B C L Ox Durh , B L or (open only to graduates in Arts) LL B the Scottish Univs In Medicine the signature of the title is M B , B M Ox , in Surgery, Ch B , B Ch Camb Dub Ox Wales, B S Durh Lond , in Obstetrics, B A O Dub N U I In Music, Mus B , B Mus Birm Durh Ox Wales

The Primate's Degrees Under powers conferred before the Reformation by the Pope, the Primate has the right to confer degrees. He has, on an average, conferred two doctorates in recent years

Honours Degrees

In all Univs of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours

At Oxford the Honours Schools (B A) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos , Politics and Economics

At Cambridge (Triposes), in Anthropology, Classics, Economics, English, Geography, History, Law (B A and LL B), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology

In Scotland (M A), in Celtic, Classics, Economic Science, English (Aberdeen, Geography), History, Latin and English, French, Italian, or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St Andrews, Natural Science), Sanskrit, Semitic Languages

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages, Oriental Languages

At London, B A Hons in Classics, Latin, Greek, Mathematics, Anthropology, Archæology, English, French, German, Celtic, Italian, Spanish, Portuguese, Dutch, Scandinavian Langs , Russian, Polish, Czech and Slovak, Serbo-Croat and Slovene, Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Sociology, Geography, B Sc Hons , Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics , B Sc Hons (Economics) , B Sc Hons (Engineering) , B Sc Hons (Mining) , B Sc Hons (Metallurgy) , B D Hons , LL B Hons , M B , B S Hons , B D S Hons

In other Univs Honours are obtainable in a variety of the subjects named above and others

Recognition of Study at other Universities

UNDERGRADUATES The Univs of Bristol and Leeds accept attendance for 1 yr at any Univ requiring residence as a qualification for a

degree At London any person who has passed the external Intermediate examn before registering as an Internal student may take the Final Examn after a 2 yrs' course and qualify for a degree in the subsequent year At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs, who have attended lectures for at least 2 yrs and attained a prescribed standard, are allowed to count the first term kept by residence as their fourth term At Cambridge a similar privilege is allowed to students of "Affiliated Institutions" At Dublin students who have spent 2 yrs in Arts studies at certain Univs (see list on p 288) and have passed the examns belonging to that period are given credit for the first academic year At Durham a similar concession is made to students of science In the Scottish and certain other Univs attendance at lectures and examns passed in other Univs may be recognized by the Board of Studies, or Senate, after consideration of each case As regards Belfast, see p 281

GRADUATES The remission to graduates of any other Univ (or of an approved Univ) of 2 yrs of the 4 yrs' course is made by the Univ of Dublin, of 1 yr of the 3 yrs' course by the Scottish Univs and by the Univs of Bristol, London, and the N U I At Oxford graduates of a home Univ and others, being over the age of twenty-one, who can satisfy the Education Committee that they have received a good general education, are eligible to apply for admission to an approved course of special study and research for the degree of B Litt or B Sc, and, if successful, may supplicate for the degree after completing 2 yrs of residence At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs' course and the submission of a dissertation, obtain the degree of M Litt or M Sc At Dublin a graduate of any approved Univ who possesses a degree the equivalent of Moderatorship may, after 1 yr of advanced study and research, present himself for examn for the degree of Sc B Certain Univs which have not adopted ordinances to that intent are prepared to consider applications from graduates of other Univs who desire to read for higher degrees for remission of standing or exemption from examinations

Higher Degrees

M A At Cambridge a Bachelor of Arts may, without further examn, proceed to the M A at the close of the 6th yr after the end of his first term, at Oxford in the twenty-first term after matriculation, at Dublin 3 yrs after passing the B A examn At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs' and 1 yr's standing respectively are admitted to the Mastership without further examn, other graduates must pass the M A examn Other Univs exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn, or both, of 1 yr at Birmingham, Leeds, Sheffield, and the N U I, of 1 yr from graduates with Honours, and 2 yrs from others, at Bristol, Manchester, and Wales, of two years from all graduates at Liverpool and London Graduates

of approved Univs can obtain the Mastership after 1 yr of advanced study and research at Birm, Belf, and the NUI, after 2 yrs at Bris, Leeds, Liv, Lond, Manc, Sheff, Wales. At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examn. At Leeds, Liverpool, and Manchester persons who have not graduated can obtain the MA degree after a course of advanced study and research extending, usually, over 3 years.

M Sc This degree is not conferred by Oxford, Dublin, or the Scottish Univs. At other Univs it can be obtained by graduates of the Univ under conditions similar to those for the MA. At Durham, by graduates, B Sc, of 2 yrs' (Sheffield 1 yr's) standing who took first or second class Honours, without further test. At Leeds, by graduates, B.Sc., with Honours, of 1 yr's standing (other Bachelors of any Faculty of 2 yrs' standing), after research (thesis required). At Liverpool, by graduates, B Sc, with Honours, after 1 yr's higher study (thesis required). At London, by Internal students of 1 yr's or 2 yrs', by External students of 1 yr's standing from B Sc with thesis (optional in Mathematics) and examn. At Manchester, by graduates, B Sc, of 1 yr's standing after thesis and examn (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students (v p 53). In other Univs which confer the degree, graduates of approved Univs can obtain the M Sc on terms similar to those for the MA, at Durh after 2 yrs' advanced study in the Univ.

Other titles of Mastership conferred by various Univs—M Litt, M Com, LL M, M Mus, MA O, M Ch, Ch M, M Ch Orth, M D S, M V Sc, M H (Hygiene), M Eng, M Sc Tech, M Met, M Arch, M Ed.

Ph D All the Univs of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for this degree must be at least 21 (Oxford—22, Brist, Liv, Durh, Wales, Dub—no minimum age), must ordinarily be graduates either of the Univ or of some other approved Univ, must have pursued their studies at a Univ or Univs for a period of at least 3 yrs (Oxford—4, London—2, Dublin—not specified), must produce evidence of fitness for the proposed course of study and research. The course for the degree extends over 3 yrs, except in special cases in which, on the ground of the candidate's previous training and attainments, it may be reduced to 2. At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ is prepared to receive advanced students.

A candidate for the degree of Ph D, as an External student of the Univ of London, must have graduated in the Faculty of Theology, Arts, Science, Engineering, or Economics in this University not less than 2 academic yrs previously.

Litt D and Sc D The Doctorate in Letters or in Science is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelors

or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Univs the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs' standing from graduation at Dublin, N U I (for D Sc Pub Health), 4 yrs' at Manchester, London (for D Sc and External D.Lit), 5 yrs' at Birmingham, Sheffield, N U I (for D Litt, D Litt Celt, D Sc), and the Scottish Univs, 6 yrs' at Belfast, Durham (for D Sc), Leeds, Liverpool (5 yrs from M A or, for D Sc, from M Sc or Ph D), Bristol, Cambridge, 7 yrs' at Oxford, London (for Internal D Lit), 10 yrs', Univ of Wales (3 yrs from M A, 2 yrs from Ph D), Durham (for Litt D).

Graduates of other Univs who have been admitted to the degree of M A or M Sc (Oxford M A, B Sc, or B Litt, Dub B A) can proceed to the Litt D or Sc D under the prescribed regulations. In Scotland Honours graduates of approved Univs of 5 yrs' standing who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish Univ, have submitted a satisfactory thesis or published work, and have, if required, passed an examn, are admitted to the Doctorate. At Bristol the degree of D Sc can be obtained without previous admission to the M Sc. At London and Manchester a candidate for the Doctorate may be specially exempted from the examn for M A or M Sc.

D Hy (Durh) 2 yrs from B Hy, examn, thesis.

Degrees in Divinity

B D is conferred after examn in the Scottish Univs and the Univs. of Durham, London, Manchester, and Wales, after examn and submission of a thesis at Dublin, after examn and the submission of a dissertation and published works at Cambridge (examn may be omitted) and at Oxford. At London the course must extend over 3 yrs, subsequent to matriculation. In Scotland a candidate must be M A of a Scottish Univ who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ who has taken a complete theological course of at least 2 yrs in the Univ conferring the degree, at Dublin, a B A of 3 yrs' standing, at Durham, a man of 25 yrs of age, who is either a graduate of 2 yrs' standing or the holder of the Diploma in Theology, in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs at one of the Associated Theol Colls of the Univ, at Cambridge, a candidate must be M A. or LL M, at Oxford, a candidate must be a M.A. or must be 26 yrs of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ during 6 terms.

D D In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon B D's who took Honours in at least one subject, on presentation of a dissertation, followed by an examn,

if the examiners so desire. At other Univs it is conferred in consideration of published works, or a dissertation (and, at Oxford, *a viva voce* examn, if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs from B D, Dublin, 8 yrs from B A, Durham, 10 yrs from B A, Manchester, 4 yrs from B D (or 6 yrs for B D's of other Univs who have studied for 2 yrs at Manchester), Oxford, 14 yrs from matricn, or, if he was admitted to the degree of B D as a graduate of another Univ, the candidate must have attained the age of 33, Wales, 6 yrs from B D.

Degrees in Medicine and Surgery

M B, Ch B The regulations for these degrees are practically uniform. Preliminary examinations satisfying the requirements of the General Medical Council (see Appendix XI). Registration as a medical student by the G M C is recommended. Satisfactory attendance during at least 5 yrs at courses of study and hospital practice. Four examns (in some Univs grouped as three or two). All examns must be passed at the Univ granting the degree, with the exception of the first, in Chemistry, Physics, and Biology, from which a candidate may be exempted if he has passed an equivalent examn at the Univ, or elsewhere (Scottish Univs, Birmingham, Bristol, Dublin for S African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the Univ for at least 3 yrs, except for the degrees as an External student of the Univ of London, who must study for 1 yr in a Univ of the United Kingdom, or for 2 yrs, Scottish Univs, Leeds, Liverpool, Manchester, for 1 yr College of Medicine, Newcastle-on-Tyne (Durham). The Univs of Oxford and Cambridge exact 3 yrs' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Univ of Wales, candidates must graduate B A (or B Sc, Wales) before admission to a medical degree.

M D Candidates must be M B, Ch B of, usually, 2 yrs' standing (Oxford, 10 yrs from matriculation. Cambridge, M B of 3 yrs', or M A of 4 yrs' standing, Sheffield, M B of 1 yr's standing, Dublin, of M A standing, N U I, M B of 3 yrs' standing). A dissertation is compulsory in almost all Univs, followed by an examn, unless the examiners pronounce the dissertation to be of such merit as to render further examn unnecessary.

Ch M Regulations similar to those for M D.

D Ch (Durh) Candidate must have devoted, subsequently to having obtained a registrable qualification, 3 yrs (including one at least in the Univ and 6 months at least abroad) to the study of Surgery and ancillary subjects.

Degrees in Dentistry and in Veterinary Science are obtainable under somewhat similar conditions

Degrees in Law

LL B (or *BCL*), obtainable with Honours or as an ordinary degree. In the Scottish Univs candidates must have graduated *MA*, at Dublin, Durham (*BCL*), National University of Ireland, *BA*. At Durham candidates must be of 4 yrs' standing from *BA*. In Wales the course extends over 3 yrs for a pass degree and 4 yrs for an Honours degree. At Belfast graduates of this or of some other Univ are eligible for the degree after a 1 yr's course in Law, at Oxford, after a 2 yrs' course, if they obtain Honours in the *BCL* examination. At Sheffield a graduate of a Univ of the United Kingdom who has attended for 1 yr the intermediate course and for 1 yr the Final course in Law and for 2 yrs studied in a recognized institution, may be a candidate for the degree. In the majority of Univs there are two exams, Intermediate and Final. For *BLV* p 241

LL M. Cambridge, Leeds, Liverpool, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manc, where a dissertation must be presented. For others, after examn or (Camb) dissertation, or both (Wales). Liverpool requires 2 yrs of approved study.

LL D (or *DCL*). By the Scottish Univs the Doctorate is awarded only *honoris causa tantum*. Other Univs, unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn, in Dublin a candidate may elect to undergo examn in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs from Honours *LL B*, Dublin, 3 yrs from *BA*, Manchester, 4 yrs from *LL B*, National Univ of Ireland and Sheffield, 5 yrs from *LL B*, Oxford (*DCL*), 5 yrs from *BCL*, Cambridge and Liverpool, 5 yrs from *LL M*, Leeds, 6 yrs from *LL B*, Durham (*DCL*) and Wales, 10 yrs from graduation or 3 yrs from *LL M*.

Degrees in Music

The degrees of *Mus B* (or *B Mus*) and *Mus D* (or *D Mus*) are conferred by the Univs of Cambridge, Dublin, Durham, Edinburgh, London, Manchester, Oxford, and Wales, *B Mus* and *M Mus* Birmingham, *Mus M* Cambridge and *M Mus* Wales.

Mus B. At Birmingham, Cambridge, Dublin, Edinburgh, London, Manchester, and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts, with, at Birmingham, where the degree is an Honours degree, an examn in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass either Responsions or the Preliminary for Students of Music, in which, if two of the three languages, French, German, Italian, are taken, neither Greek nor Latin is obligatory. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not

obligatory at Dublin, Durham, or Oxford At Edinburgh students must study Music in the Univ for one whole winter session As a rule, the course extends over 3 yrs with two, or three, examns, including an exercise for the Final examn

Mus M Conferred 3 yrs (Wales—2 yrs) after the *Mus B* for original work and dissertation (Birmingham), after examn and exercise (Cambridge, Wales)

Mus D Conferred at Cambridge on graduates not less than 30 yrs of age, in recognition of distinction as Composer, in Wales (*D Mus*) on *B Mus* of 10 yrs' or *M Mus* of 3 yrs' standing on consideration of original compositions, at Edinburgh on *Mus B*'s of 3 yrs' standing, after examn as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum*, at Dublin on *Mus B*'s after further examn or practical test, at London on *Mus B*'s of 2 yrs' standing, Oxford 3 yrs', Manchester 4 yrs', Durham and NUI 5 yrs', after exercise and examn

QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES REFERRED TO IN THE YEARBOOK BY LETTERS AFTER NAMES

[See also lists of medical qualifications in Appendix XI In the appendices relating to the various professional associations some account is given of the examinations, etc, whereby their qualifications are obtained]

ACA	Associate of Institute of Chartered Accountants
ACGI	City and Guilds of London Institute
AIC	" Institute of Chemistry
Assoc Inst M M	" Institution of Mining and Metallurgy.
AMIAE	Associate Member of Institution of Automobile Engineers
AMICE	" " " Civil Engineers
AMICHEM E	" " " Chemical Engineers
AMIEE	" " " Electrical Engineers
AMIMECH E	" " " Mechanical Engineers
AM Inst M and Cy E	" " " Municipal and County Engineers
Assoc M I Min E	" " " Mining Engineers
AMINA	" " " Naval Architects
AM I Struct E	" " " Structural Engineers
ARAM	" of Royal Academy of Music
ARCO	" " College of Organists
ARCS	" " College of Science
ARE	" " Society of Painter Etchers
ARIBA	" " Institute of British Architects
ARSM	" " School of Mines
CA	Chartered Accountant
DIC	Diploma of Imperial College of Science and Technology.
DMRE	" in Medical Radiology and Electrolgy.
DOMS	" in Ophthalmic Medicine and Surgery
DPH	" in Public Health
DPM	" in Psychological Medicine.
DTM	" in Tropical Medicine
DVSM	" in Veterinary State Medicine
FAI	Fellow of Auctioneers' Institute
FBA	British Academy
FCA	Institute of Chartered Accountants
FGS	Geological Society
FIA	Institute of Actuaries
FIC	" Chemistry
F Inst P	" Physics

FLS	Fellow of Linnæan Society
FRAM.	Royal Academy of Music
FRCO	" " College of Organists
FRCP	" " " Physicians, London
FRCS	" " " Surgeons, England
FRCVS	" " " Veterinary Surgeons
FRIBA	" " " Institute of British Architects
FRS	" " " Society
FSA A	" " Society of Accountants and Auditors
FSS	" " Royal Statistical Society
FZS	" " Zoological Society
LDS	Licentiate in Dental Surgery
MIA E	Member of Institution of Automobile Engineers
M I Chem E	" " Chemical Engineers
M Inst C E	" " Civil Engineers
M Inst E E	" " Electrical Engineers
M I Mech E	" " Mechanical Engineers
M Inst M and Cy E	" " Municipal and County Engineers.
M I Min E	" " Mining Engineers
M Inst M M	" " " and Metallurgy
MINA	" " Naval Architects
M I P T	" " Petroleum Technologists
M I Struct E	" " the Institute of Structural Engineers
MPS	" " the Pharmaceutical Society
M R C V S	" " the Royal College of Veterinary Surgeons
M R S I	" " the Royal Sanitary Institute
NDA	National Diploma in Agriculture
NDD	" " Dairying
NDP	" " Poultry Husbandry
PASI	Professional Associate of the Surveyors' Institution
ROI	Royal Institute of Oil Painters
Wh Sch	Whitworth Scholar

N.B.—The letters used in the Yearbook are not in all cases those authorized by the Associations, *e.g.* M Inst.C.E is sometimes abbreviated to M I C E, M I Mech E to M I M E.

NATIONAL UNIONS OF STUDENTS

A NATIONAL UNION OF STUDENTS of the Univs and Univ Colleges of England and Wales was formed in Feb 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. They are affiliated to the *Confédération Internationale des Étudiants*. They maintain correspondence with students' unions in foreign countries, and have been specially active in promoting foreign travel of English students and their intercourse with students abroad. *Address*—The University Union, Malet Street, London, W C 1.

NATIONAL UNION OF STUDENTS OF SCOTLAND Each Students' Representative Council appoints annually an Inter-Academic Committee. The four Committees form the Executive Committee of the N.U.S., under the presidency of the President of the S.R.C. Conference. The N.U.S., which is affiliated to the *Confédération Internationale des Étudiants*, charges itself with the collection and distribution of information concerning student activities, literature, and travel within Scotland and abroad. Its office is, S.R.C. Office, The Univ., Edinburgh, to which all communications should be addressed.

UNIVERSITY OF BIRMINGHAM

VISITOR—H M THE KING

CHANCELLOR—THE VISCOUNT CREIL OF CHILLWOOD, M A, D C L,
LL D, K C, M P

VICE-CHANCELLOR—SIR GILBERT BARLING, BART, C B, C B E
F R C S

PRO-VICE-CHANCELLOR—JOHN HENRY LLOYD, M A, J P

TREASURER—HUGH MORTON, M A, J P

PRINCIPAL—C GRANT ROBERTSON, C V O, M A Oxford

VICE-PRINCIPAL—SIR WILLIAM ASHLEY, Ph D, M Com, M A

SECRETARY—GEO H MORLEY M Com

REGISTRAR—JOHN H COSTAIN

LIBRARIAN—E H F MILLS, M A

PROFESSORS, LECTURERS, ETC, January 1, 1924

Accounting

Martineau, C E, M A Camb,
M Com, F C A Prof

Hughes, C L, A C A Lectr

Agriculture, & Zool

Anatomy, Human, and Anthro- pology

Brash, J C, M A, M D, M B,
Ch B, B Sc Prot

Haslam, W F, M B, Ch B,
F R C S Lectr

Payton, C G, M B, Ch B Demr

Raison, C A, M B, Ch B Demr

Rose, Baron T, B Sc, M B,
Ch M, F R C S E

Hon Demr

Shuffelbotham, Hilda N, B Sc,
M B Demr

Gemmull, W, M A, F R C S

Hon Demr

Botany

Yapp, R H, M Sc, M A Camb,
Elliott, Jessie S, B Sc Lond,
D Sc Lectr

[Mason Prof

Lectr

Leach, W, B Sc Manc

Asst Lectr

Brewing

Ling, A R, M Sc, F I C Prof

Nanji, D R, M Sc, A I C Asst

Chemistry

Morgan, Gilbert T, O B F, D Sc
Lond, A R C S, F I C, F R S

Mason Prof

Carter, S R, M Sc, A I C

(Sr Lectr in Physical C)

Nicholas, S D, B A Ox, A I C

Lectr

Wardlaw, W, D Sc Durh, A I C

Lectr

Wood, C E, M Sc, A I C Lectr

Cooper, E Ashley, D Sc (Lond),
F I C

Lectr in Pub Health C

Jr Lectrs

Pinkard, F W, M Sc Wales, A I C

Glover, T J, Ph D, M Sc N U I

Drew, H D K, Ph D, M Sc

Classics

- Thomson, J Oliver, O B E , M A
Aberd , B A Camb (Latin)
Prof
Hurst, Margaret E , M A
Asst Lectr
Chambers, C D , M A Ox (Greek)
Reader
Bairrett, A J , M A Ox (Latin)
Asst Lectr

Commerce, v also Acc.

- Ashley, Sir Wm , M A Ox ,
M Com , Ph D Berl Prof
Smith, J G , M A Dub
Mitsui Prof of Finance
Whale, P B , B Sc Econ Lond
Lectr

Commercial Law

- Tillyard, F , M A Ox , M Com ,
Barr -at-Law Prof

*Dental Science, v infra**Education*

- Valentine, C W , M A Camb ,
D Phil St And Prof

Heads of Training Depts

- Braddock, A P , M A , B Sc
Lond
Hammond, Marjorie, B A
Gill, Conrad, D Litt Leeds, M A
Camb, Scnr Tutor, Train-
ing Dept

Lectrs

- Chapman, A E , M A Camb
Scott, Elizabeth, B A Belf

Asst Lectrs (v also History)

- Ritchie, Frances M , M Sc
Asst Lectr in Secondary Dept
Buchanan, Freda M , M A Edin
Hippisley-Barnes, Hilda A , B Sc
Lond
Chester, K E , M A Ox
Jebb, Eglantyne M , M A Ox
Poulton, Ethel M , M Sc
Simpson, Lillian E , B A
Thomason, M Beatrice, M A
Cull, E C , B Sc Lond

Engineering, Civil [Beale Prof.

- Lea, F C , O B E , D Sc Lond ,
M Sc , A M I C E , A R C S
Panton, R C , M Sc , M A , B A I
Dub Lectr
Veal, T H P , B Sc , A M I C E
Lectr
Coultas, H W , M Sc , B Sc Leeds
Lectr
Haywood, W , F R I B A (Town
Planning) Lectr

Engineering, Electrical

- Cramp, W , D Sc Manc , M Sc
Tech , M I E E Prof
Kipps, E J , M Sc , M I E E
Lectr
Harvey, G M , B Eng Liv ,
A M I E E Lectr
Randall, O R , B Sc Lond M Sc
Lectr.

Engineering, Mechanical

- Burstall, F W , M Sc , M A Camb ,
M I C F , M I Mech E
Chance Prof
Porter, R C , M Sc Vict ,
A M I C E Lectr
Boden, F H , B Sc (Machine
Design) Lectr
Dean, H P , B Sc (Machine De-
sign) Asst Lectr
Ellis, S J , B Sc Demr

English

- de Selincourt, E , M A , D Litt
Ox Prof
Maitland-Smith, I J , M A Aberd
Lectr
Hughes, A D M , M A Ox Lectr
Milner-Barry, Alda, M A Lectr
Asst Lectrs

- Jebb, Eglantyne M , M A Ox
Buchanan, Freda M , M A Edin
Gillett, E W , B A Ox

French

- Ritchie, R L Graeme, M A ,
D Litt Aberd , D de l'U
Paris, O A Prof
Milne Jane J , M A Lectr.
Chester, K Elsie, M A Ox
Asst Lectr

Roe, F C, M A Asst Lectr
 Linère, Marie T, L ès L Asst

Geology and Mineralogy [Prof
 Boulton, W S, D Sc Wales,
 M Sc, A R C S, F G S
 Raw, F, B Sc Lond, F G S (Spl
 Lectr in Petrology) Lectr
 Wills, L J, Ph D, M A Camb,
 F G S Lectr

German
 Sandbach, F E., M A Camb,
 Ph D Strass Prof
 Strachan, L R M, M A Lectr
 Liddell, M F, M A Edin

Asst Lectr
History [Prof
 Beazley, C R, D Litt. Ox, M A
 Gill, Conrad (v Educ)
 Reader in Const H

Jr Lectrs
 Sutcliffe, Dorothy, M A Manc
 and Leeds
 Adams, H P, M A (Ancient H)
 Thomason, M Beatrice, M A (Asst
 Lectr in Educn)

Italian [Serena Prof
 de Castelveccchio, Linetta P

Law [Director
 Tillyard, Prof (v Comm L)
 Potter, H, I L B Reader
 Camm, W C Lectr

Mathematics
 Watson, G N, Sc D Camb,
 D Sc Lond, F R S
 Mason Prof
 Preece, C T, M A Camb Lectr
 Colomb, Ruby, M A Lond
 Lectr

Asst Lectrs
 Calderwood, Nora I, M A, B Sc
 Edin
 Lumsden, T A, M A, B Sc Edin

Medicine, v infra

Metallurgy [Feeney Prof
 Turner, T, M Sc, A, R S M, F.I.C.
 (Lectr in Dental M)
 Bamford, T G, M Sc Liv Lectr.

Asst Lectrs & Demrs
 Harris, H, M Sc, F C S
 Turner, T H, M Sc

Mining
 Cadman, Sir John, K C M G,
 D Sc, Hon Prof of M and
 Adviser in the Dept of M

Mining, Coal, and Metal
 Moss, H N, O B E, M Sc
 A M I C F, M I M n E
 F G S Prof
 Rees, J P, A R S M

Lectr in Metal M
 Garrett, J G, B Sc, A M I M n E
 Lectr in Surveying
 Mitcheson, J C, B Sc
 Asst Lectr & Demr

Mining, Oil
 Prof
 Nash, A W, M I Mech E,
 M I P T Lectr

Demr in Petroleum Boring
 Haldane, J S, LL D, M D,
 F R S, Hon Prof and Dir
 of Research Lab
 Graham, J I, M A Camb, M Sc
 Lond, A R C Sc I
 Asst Dir of Research
 Shatwell, H G, M Sc (Tech)
 Manc Research Worker

Music
 Bantock, G, M A, D Mus Edin
 R Peyton Prof
 Finegan, E M V, M A Liv
 Lectr

Philosophy and Polit Economy
 Moberly, W H, M A Ox Prof.
 Harvey, J W, M A Ox Lectr.

Physics
 Smith, S W J, M A Camb
 D Sc Lond, F R S
 Poynting Prof
 Shakespear, G A, D Sc, M A
 Camb, B A, B Sc Lond (Spl
 Lectr in Expl P) Lectr.

Barlow, G., D Sc Birm., Wales,
and Lond Lectr

Keene, H B, D Sc Lectr
Asst Lectrs

Ibbs, T L, M C, M Sc
Young, J, B Sc Lond, A R C S.
Dee, A A, B Sc Lond, A R C S
Johnson, M C, B A Camb

Physiology

Carlier, E. W W, M Sc, M D
Edin F R S Prof
Walker, Hilda, M B, Ch B Lectr
Patrick, Dorothy M, M B, Ch B
Asst Lectr

Russian

Tillyard, H J W, M A Camb,
D Litt Edin Prof

Spanish

Conroy, R, M A N U I Lectr

Zoology and Comp Anatomy

Gamble, F W, D Sc Manc,
M Sc, F R S (Dir. of Agric
Z Research) Mason Prof
Newth, H G, A R C S Lectr
Eastham, L, M Sc Leeds
Asst Lectr

Medicine (for subjects of first 2 yrs
—Anat, etc, v *supra*)

Bacteriology, v Path

Forensic M & Toxicology

Morrison, J T. J, M A, M B,
B C Camb, F R C S Prof
Walker, C, M D, B Sc Asst

Hygiene and Public Health, v also Chem

Robertson, J, C M G, O B E,
M D, B Sc Prof
Lewis, C J, M D, D Sc
Assoc Prof

Auden, G A, M D, M A, B C,
D P H Camb, F R C P
(Hygiene) Asst Lectr

Infant Hygiene and Dis of Children

Parsons, L G., M D. Lond (also
Clin. Lectr) Lectr

Materia Medica

Kneale, J. C, M.B, Ch B Lectr
Greenwood, F R, M D, B S
Lond, M B, Ch B Demr

Medicine

Russell, J W, M A, M D,
F R C P Prof
Kauffmann, O J, M D, F R C P
Prof
Ball, L, M D Asst

Mental Diseases

Hughes, P T, M.B, Ch M Edin,
D P H Lond Lectr.

Midwifery and Dis of Women

Wilson, T, Ch.M, M D Lond.,
F R C S Prof
Purslow, C E, M D Lond Lectr
Whitehouse, Beckwith, M S,
F R C S Asst.

Ophthalmology

Evans, J J, M D, F R C S Lectr.

Pathology & Bacteriology [Prof

Wilson, G H, M D, M B Glas
Lamb, F W M, M B, Ch B
Asst Lectr
Lewis, C J, M D, D Sc Edin,
F R C P E (Board of Pub
Health) Spl Lectr
Wyatt, R B H, M A, M B,
Ch B Demr
Abrahams, R G, M B, Ch B
Asst
Ash, E B, M B, Ch B Asst

Surgery

Leedham-Green, C, M B, Ch M,
F R C S Prof
Gamgee, L P, Ch M, F R C S
Prof
Barling, S, C M G, M S, F R C S.
Asst.

Surgery, Operative

Barnes, F, M S, F R C S Lectr

Therapeutics

Stanley, D, M D Birm and
Edin, F R C P Prof.
Hardy, T L, B A, M B Lectr

Dental Science , v also Metall	Donagan, A E, M A Camb,
Matthews, G F C, L D S	L D S Lectr (D Mechanics)
Lectr (Orthod)	Madm, W T, B D S, L D S
Humphreys, H F, M B, Ch B,	Lectr (D Surgery, etc)
M D S, L D S	
Lectr (D Anat and Physiol)	University Extension
Wellings, A W, M D S, L D S	Tutors J W Harvey (Jt -Secy)
Lectr (D Histol, etc)	and 12 others

AFFILIATED INSTITUTIONS

MIDLAND INSTITUTE Students are admitted to Intermediate Arts examn as Internal students

SALTLEY TRAINING COLLEGE Students taking the 4-yr course are admitted to the Intermediate Arts examn as Internal students

HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES Students can take the 2nd and 3rd yrs for the B A in their own Colls

GENERAL INFORMATION

The Univ, a development of the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. Arts, Medicine, and the Biological departments are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £750,000 at Bournbrook on a site of 40 acres.

LIBRARY, about 75,000 vols. **MUSEUMS**, Anat, Dent, Geol, Zool. **LABORATORIES** Chemical (with special organic, phys, electro-chem, analytical, and public health depts), Engin, Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab, expl coal-mine and oil-boring plant, petroleum engineering being a speciality), Brewing, Power-station supplying whole Univ with lighting, heat, and power. A small **OBSERVATORY** is attached to the dept of Physics. **HOSPITALS** (600 beds) available for clinics—General, Queen's, and many special.

FACULTIES Arts (including Music), Science (Pure and Applied), Medicine (including Dentistry and Public Health), Commerce. *Departments of Education* (training for teaching in primary and secondary schools), Legal Studies, Social Study, Industrial certificates. *University Research Committee*

MATRICULATION See Appendix XXI

DEGREES, ETC B A, B Mus, M A, M Mus, D Phil, D Litt, B Sc (in Pure Science, or in Engineering—Civ, Elec, or Mech, Metallurgy, or Mining), M Sc, D Sc, M B, Ch B, B Sc (Pub Hcalth), B D S, M D, Ch M, M D S, B Com, M Com, Ph D (in any Faculty), LL D (Honorary).

No degree can be obtained without attendance upon prescribed courses in the Univ extending over at least 3 academic yrs after matric except in the case of graduates of other Univs, who are, under certain conditions, admitted to the 1-yr courses for the M A and M Sc and to 2 yrs' courses for the B Sc (courses in technical subjects), B Com (one year may in exceptional cases be taken elsewhere), Ph D (v p 14), M D, or Ch M.

B A Honours schools in Classics, French, German, Engl Lit, Hist, Social and Polit Sc, Philos, Maths, Music

In the B Com courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science

The B Sc with Honours requires 3 yrs after the Intermediate standard has been reached. The B Sc courses in Engineering cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox Dipl in Scientific Engin and Mining are eligible, subject to certain provisos, for the B Sc in Engin, Mining, or Metall after 2 yrs' study in Birmingham

Med students may spend their final yr at any school or schools of Med recognized by the Univ, and the Senate may recognize exams passed therein as exempting from the 1st Med examn. They may obtain the B Sc as well as their Med degree by devoting 6 yrs after the pre-medical year instead of 5 to study in the Univ

Candidates for the B Mus (Honours) must have passed the matricn or an equivalent examn and an examn in the Rudiments of Music, and power of performance on some musical instrument

The M A, M Com, and M Sc involve at least 1 yr of study after completing the course for the bachelorship

The M A may be taken in Educn and in Music as well as in the ordinary Arts subjects

The D Phil or D Litt, M Mus, and D Sc may be taken 3 yrs after the M A, B Mus, or M Sc

Advanced Standing Candidates who pass at entrance certain exams ordinarily taken after the first year of a degree course may take the final examn for the B A at the end of their second year and the M A at the end of their third year. Certain exams of other approved Univs and Examining Bodies are accepted as qualifying for such advanced standing

Diplomas Art Instructor's (2 yrs' course), for students of the Municipal School of Art, *Brewing* (3 yrs' course), Brewing Special for graduates (1 yr), *Graduates' Commerce* (1 yr course), open to graduates of any Univ who have passed an adequate test in accounting, *Mining*, *Social Study* (1 yr or, Higher Dipl, 2 yrs' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc), *Secondary, Primary, or Continuation School Teachers'* (1 yr course), for graduates of a Univ of the U K or others equally qualified, *Dental Surgery* (4 yrs subsequent to passing a recognized Pre-Dental examn), *Public Health* (1 yr course) not less than 2 yrs after obtaining registrable qualification in Med, Surg, and Midw

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The work is organized by a special tutor, appointed and paid by the Univ. The class is held in all three terms of the Univ session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ Staff. Evening classes are not provided by the Univ, this work being left to the Birm and Midland Inst, Munic Tech Sch, etc

RESEARCH A joint standing committee of lay members of council and academic members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Gov agencies and external bodies. Trust Funds (Spencer and Holcroft) amount to £10,000

FEES Matricn, £2 Tuition for B A, £75, B Sc, £75-£96, Engin, £221, Mining, £146-£198, Metall, £129-175, Med, including Hospl fees, £170 Exams, Interim and Final, for first degree, £10, except in Med, £20, and Engin, £12 10s Laboratory research fees average about £20

SCHOLARSHIPS for advanced students Walter Myers (Travelling), £150 for 1 yr, renewable, for research in Path or Clin Med, open to graduates in Med and Surg of Birm (who have also obtained the B Sc), London, Ox, or Camb, 10 Scientific Research, tenable for 1 yr (6 of £96 and 4 of £50 each), are offered annually

RESIDENCE For women there is a Hostel—Univ House, Edgbaston Park Rd (Warden), with grounds of 2½ acres, for 70 men students—Chancellor Hall, Augustus Road, Edgbaston The cost of board and lodging is from £2 2s upwards a week

An **APPOINTMENTS BOARD** (Secy —The Registrar) has been established

UNIVERSITY EXTENSION work includes Lectures and Tutorial Classes in the city and neighbouring towns

PUBLICATIONS *Calendar* (Oct), 2s; Sectional Prospectuses (April), students' magazine, *The Mermaid*, 6d

THE YEAR 1922-23

BEQUESTS £20,000 for Chair of Law, Mitsui group in Japan, £5000 for Chair of Public Finance, Sir C Hyde, £4500 for Men's Hall of Residence, E Kenway, £1000, C H Palkthorpe, £1000, Scholarships founded by Dudley Docker and John Avins, many smaller gifts

NEW DEVELOPMENTS Library Staff further reorganized and reclassification of books continued, many gifts, including portion of Library of late Rt Hon Jesse Collings, M P, *The Joint Standing Committee for Research* organized and financed important research work in all Faculties, a James Watt Research Fellow in Mech Engineering was appointed, the Joint Board for Research into Mental Disease was created, a permanent officer to direct was appointed, and a course of lectures by Sir E Mott, F R S, was given, *Law* a Department of Legal Studies was set up, with a Director, a Reader in Law, and a Lectr, and 40 students were enrolled, the Univ this session will appoint a full-time Prof of Law, *Mining Engineering* the dept was subdivided under two Profs, and an elaborate scheme for provision of rigs and plant in Petroleum Engineering was adopted and commenced on a new site, *Univ Extension* Tutorial Classes were largely extended, and the Industrial Certif Class for Trade-Unionists was extended and reorganized, *Music* with the aid of Alderman G Cadbury a course in Campanology was added to the curriculum for the degrees in Music

SPECIAL EVENTS H R H the Prince of Wales, in his visit to the Midlands in June 1923, honoured the Univ by being present at a conversazione given in his honour, F W Aston, D Sc, a scholar and former member of the staff, was awarded the *Nobel Prize* for his researches in physics, the Freedom of the City was conferred on Sir G Kenrick, a member of the Univ Council and a liberal contributor to the endowment of the Univ, for his work in education

RESIGNATION. Miss Orange, Warden of Women's Hall of Residence

HONORARY DEGREE (LI D) conferred on Francis W Aston

STATISTICS, v Appendix XXIX

UNIVERSITY OF BRISTOL

VISITOR—H M THE KING

CHANCELLOR—Rt Hon VISCOUNT HALDANE OF CLOAN, O M , K T ,
D C L , L L D , F R S (*ex officio* President of Court, Council, and
Convocation)

PRO-CHANCELLORS—Rt Hon HENRY HOBHOUSE, M A , L L D , Sir
GEORGE A WILLS, Bart , L L D , The Rt Rev. the LORD BISHOP
OF BRISTOL, D D , L L D , STANLEY H BADOCK

VICE-CHANCELLOR—THOMAS LOVEDAY, M A Ox

PRO-VICE-CHANCELLOR—Prof F FRANCIS, D Sc , Ph D , F I C

TREASURER—STANLEY H BADOCK

REGISTRAR—E G FRANCIS, M A Camb

TUTOR TO THE WOMEN STUDENTS AND WARDEN OF THE UNIV HALL
OF RESIDENCE FOR WOMEN—MAY C SLAVELEY, M A

LIBRARIAN—W L COOPER, M A Ox

HON MEDICAL LIBRARIAN—C KING RUDGE, M R C S , L R C P

ASSOCIATED INSTITUTIONS

(In which specialized teaching is given or facilities for research are
afforded)

- (1) BRISTOL BAPTIST COLLEGE *Principal*—C D Whittaker, L L D
- (2) WESTERN COLLEGE, BRISTOL *Principal*—R S Ffanks, M A , D Litt
- (3) THEOLOGICAL COLLEGE, SALISBURY *Principal*—C T Dimont, M A ,
B D
- (4) S BONIFACE COLLEGE, WARMINSTER *Principal*—J W S Tomlin,
M A
- (5) NATIONAL FRUIT AND CIDER INSTITUTE, LONG ASHTON (*v infra*,
LABORATORIES) *Director*—Prof B T P Barker, M A
- (6) REDLAND HIGH SCHOOL & COLSTON'S GIRLS' SCHOOL, BRISTOL, for
kindergarten training

The *Royal Agricultural College, Cirencester*, founded in 1845 and associated
with the Univ from 1910, was closed during the war, but was reopened in
1923 with M J R Dunstan, O B E , M A , as Principal.

PROFESSORS, LECTURERS, ETC., January 1, 1924

Agriculture

- Dunstan, M J R, O B E, M A Ox, F I C Prof
 Barker, B T P, M A Camb (A Biology) Prof
 Wallace, T, M Sc Durh, A I C (A Chem) Lectr
 Briton-Jones, H R, B Sc Lond (Mycology) Lectr
 Grove, O (Enology), M Sc Lectr
 Lees, A H, M A Camb (Entomology) Lectr
 Spinks, G T, M A Camb (A Botany) Lectr
 Tutin, F (Bio-Chem), M Sc Lectr
 Peren, G S, B S A Tor (Pomology) Lectr
 (Plant Physiology) Lectr
 Ballard, E, B A Camb (Plant Path) Asst Lectr
 Hutchinson, H P B Sc Research Organizer
 Hanley, J A, A R C S Lond, Ph D Munich Information Officer

Anatomy

- Fawcett, E, M D, C M Edin F R S Prof
 Stock, W S V, M B, B S Lond, F R C S Demr
 Llewelyn, Miss G R, B Sc Demr
 Adams, A W, M B, M S Lond, F R C S Demr
 Moore, C A, M S, M B Lond, Ch M, F R C S (Surg and Applied Anat) Lectr

Anthropology

Lectr

Arabic, Aramaic, etc, v Orient*Art*

- Dick, S (S)

Bio-Chemistry

- Nierenstein, M, Ph D Berne, D ès Sc Gén Lectr

Botany, v also Agr

- Darbishire, O V, B A Ox, Ph D Kiel Prof
 Hunter, C, M Sc Durh Lectr
 Lee, Miss E M, M Sc Lectr
 Galchrist, Miss G, B Sc Demr
 White, J W (Systematic B) (S)
 Gardiner, G F, F R H S (Gardening) (R)

Chemistry, v also Agric

- Francis, F, D Sc Manc, Ph D Erl, F I C A C Pass Prof
 Davis, O C M, D Sc Lond, D Sc, M D Ch B, F I C (also Lectr in Med to Dental Students and Demr in For Med and Toxicol) Lectr
 Rixon, F W, M Sc Manc, Ph D Gies, F I C Lectr
 Taylor, Millicent, D Sc, F I C Lectr
 Menzies, R C, B Sc, Ph D St And Asst Lectr

Chemistry, Applied, v p 32*Chemistry, Hygienic* [Lectr

- Russell, E, B Sc Lond, F I C

Chemistry Physical

- McPain, J W, M A Tor, D Sc Brown, Ph D Heid, F R S, F I C Leverhulme Prof
 Laing, Mary E, M Sc Research Asst

Classics [H O Wills Prof

- Dobson, J F, M A Camb (Greek) Brooks, F, M A Ox Prof
 Pitman, H, M A Ox Lectr

Dental Science, v *infra**Economics*, v also Loc Govt

- Phillips, H, M A Ox Lectr *
 Burrows, H B, B Com Leeds Asst Lectr

Education

- Wodehouse, Helen M, M A, D Phil Birm Prof

(R) = Recognized teacher. (S) = Special Lectr. * Head of Dept

Pease, Marian F., LL D (S)
 Foster, T S, M A Ox, Master of
 Method (S)
 Mullock, Amy, M Sc Manc, M A
 Mistress of Method
 Childs, E C, M A, B D Lond
 Lectr
 Carre, M H, M A Ox Lectr
 Nicholson, J H, B A Ox, M A
 Lectr

Asst Lectrs

Morgan, L T, B Sc
 Harvey, A C, M A Manc.
 Odell, D Anstace
 Whitwill, Gladys C, N F U
 Davies, Hilda M, M A Wales
 Dale, A Barbara, M A, Ph D Yale
 Byrne, Miss J W (Kindergarten)
 Wilson, Miss R M (Kindergarten)
 Skinner, F Drawing (R)
 Warrell, A, F R C O Music (R)
 Carlson, J E G Phys Exerc (R)
 Jennings, Miss E S „ „ (R)

Engineering, v p 32.

English [Winterstoke Prof
 Crofts, J E V, B A, B Litt Ox
 Haworth, P, M A Manc, Ph D
 Innsb Lectr
 Birkhead, Edith, M A Liv Lectr

French, v also p 32 [Prof
 Boillot, F, M A Shef, L ès L
 Perkins, B N, M A Camb Lectr
 Leclercq, R A, B ès L Lille Asst

Geography [Lectr
 Jervis, W W, M Sc Durh, F G S

Geology
 Reynolds, S H, M A, Sc D
 Camb C Wills Prof
 Turner, H W, B A Ox, F G S
 Lectr

Wallis, F S, M Sc Asst Lectr
 Smith, S, M A Camb, D Sc
 Durh Asst Lectr

German
 Ord, C, M A Camb Lectr *
 Ord, Evelyn Asst Lectr

Hebrew, v Orient Langs.*History*

Leonard, G H, M A Camb, M A
 (Modern H) H O Wills Prof
 Staveley, May C, M A Dub,
 M A Lectr
 Gardner, Alice, M A (Byzantine
 H) Reader
 MacInnes, C M, B A Ox and Dal
 Lectr
 Gough, J W B A Ox Asst Lectr

Italian

Gualtieri, Signa E Lectr *

Law

[Lectr *

Lewis, M M, M A, LL B Camb
 Veale, E W W, LL B Lond
 Asst Lectr
 Wilshire, A M, M A Ox, LL B
 Lond Lectr (Comm L)

Local Government

Cashmore, Hilda, M A Ox Lectr

Mathematics

Hassé, H R, M A Camb, D Sc
 Manc H O Wills Prof
 Todd, H, B A Camb Lectr
 Vint J, M A Belf Lectr
 Fraser, P, M A Camb, B Sc
 Aberd Lectr

Maths, Applied

Boulton, E S, M A Camb, B Sc
 Lond Prof

Medicine, v *infra**Military Subjects*

[(S)]

Killick, Capt A H, D S O, M C

Mining, v Engin*Music*

(S)

Hunt, H W (History of M) (R)
 Beachcroft, R O, Mus D (Teach-
 ing Methods) (R)

Oriental Languages

Segall, J (Arabic) (S)

O'Leary, De L, M A, D D Dub
 (Aramac and Syriac) (S)

Polack, J, B A Lond (Hebrew)
 (S)

<i>Palæontology</i>		<i>Zoology</i>	[Lectr *
Bolton, H., D Sc	Reader	Henderson, W. D., M A., B Sc	
		Aberd., Ph D Freib i/B	
<i>Philology, Comparative</i>		Wheeler, J. F. G., B Sc	
Sibree, E., M A Ox	Lectr.		Asst Lectr
<i>Philosophy</i>		<i>Medicine</i> (for subjects of first 2	
Russell, L. J., M A., B Sc., D Phil		yrs —Anat., etc., v <i>supra</i>)	
Glas	Prof	<i>Anæsthetics</i>	
<i>Physics</i> , v also Chem		Flemming, A. L. M B., Ch B (C)	
Tyndall, A. M., D Sc Lond., D Sc		Corfield, C., M R C S., L R C P	
H. O. Wills Prof			(C)
Williams, Illtyd, M Sc Wales	Lectr	<i>Tutors</i>	
Piper, S. H., B Sc., F I P Lond.		Stock, W. S. V., M B., B S Lond.,	
Potter, H. H., Ph D Lond., B Sc	Lectr	I. R C S	
Asst Lectr		Logan, H. B., M R C S., L R C P	
Sucksmith, W., B Sc Leeds	Asst Lectr	<i>Bacteriology</i> , v Pathology	
		<i>Diseases of the Skin</i>	
<i>Physiology</i>		Wills, W. K., M A., M B., B Ch	
Buckmaster, G. A., M A., M D.,		Camb	(C)
B Ch., D P H Ox		Nixon, J. A., C M G., B A., M D.,	
H. O. Wills Prof		B Ch Camb., F R C P (and	
Short, A. R., B Sc., M D., B S		m Med.)	(C)
Lond., F R C S	Lectr	<i>Fevers</i>	
Hickman, H. R. B., M A., M B.,		Peters, B. A. M D., B Ch., D P H	
B Ch Ox	Lectr	Camb	(C)
Rowell, Miriam	Lectr	<i>Forensic Med., etc.</i> , v also Chem	
		Parker, G., M A., M D Camb	
<i>Technology</i> , v <i>infra</i>			Lectr *
<i>Theological Subjects</i>		<i>Laryng., Rhin., and Otology</i>	
Whittaker, C. D., B A., B Sc		Watson-Williams, E., M B., B Ch	
Lond., LL D		Camb., Ch M	(R)
Robinson, F. E., M A., B D Lond.,		Wright, A. J. M., M B., B S Lond.,	
M A		M B., Ch B., F R C S	Lectr *
Franks, R. S., M A Camb.,		Harty, J. P. I., B A., M B., B Ch.,	
D Litt Ox		R U I., I. R C S	(C)
Macey, T. S., B A Lond., M A		<i>Medicine</i> , v also Pharm	
Dimont, C. T., M A., B D Ox		Edgeworth, F. H., M A., M D.,	
Bellars, A. R., M A Camb and		B Ch Camb., D Sc Lond	
Bris			(C) Prof
Wand, J. W. C., M A Ox		Symes, J. O., M D Lond., D P H	
Prideaux, S. T. P., D D Ox			(C)
Burn, A. E., D D Camb		Coombs, C. F., M D., B S Lond.,	
Gomlin, J. W. S., M A Ox		F R C P	(C)
Marshall, H. S., A K C		Charles, J. R., M A., M D Camb.,	
Matravers, Miss E. C		F R C P	(C)
		Nixon, J. A., C M G., B A., M D.,	
		B Ch Camb., F R C P	(C)

(C) = Clinical Lectr (R) = Recognized teacher * Head of Dept

Clarke, R C, M B, Ch B (C)
 Clarke, C, M D, B S Lond (C)
 Birrell, J A, M B, B S (R)
 Herapath, C E K, M D, B S
 Lond (C)

Carleton, H H, M A, D M Ox
 Sr Tutor

Elkington, G W, M R C S,
 L R C P (R)

Medicine (Dental Students)

Davis, O C M (v Chem) Lectr

Mental Diseases [(C)]

Blachford, J V, M D, B S, Durh

Obstetrics, v also Surg

Swayne, W C, M D, B S Lond,
 M D, Ch B (C), Prof

Rayner, D C, F R C S (C)

Statham, R S S, M D, Ch M
 Demr, (C)

Baker, Lily, M D, B Ch Lond,
 B A O, F R C S I (R)

Ophthalmology

Walker, C H, B A M B Camb,
 F R C S Lectr *

Cross, F R, M B Lond, L L D,
 F R C S Reader

Iles, A E, M B, B S Lond,
 F R C S (C)

Chambers, E R, F R C S E,
 D O M S (C)

Garden, R R, M B, Ch B,
 D P H Aberd (R)

Pathology, v also Pub Health

Hall, I W, M D, Ch B Manc
 Prof

Path and Bacteriology [Demr

Todd, A T, O B E, M D Edin

Hadfield, G, M D, B S Lond (R)

Pharmacology and Therap

Neild, Newman, M B, Ch B Vici
 (also (C) in Med) Lectr *

Pharmacy (Practical)

Faylor, A L, M P S (R)

Thomas, Wm, M P S (R)

Physio-Therapy [(R)]

Christofferson, P E, M B, Ch B

Public Health

Davies, D S, M D Lond, L L D,
 D P H Lectr *

Heaven, J C, M R C S, D P H
 Demr

Fraser, A D, M A, B Sc, M B,
 Ch B Glas, D P H (Demr

in Path and P H) Asst Lectr

Askins, R A, M A, M D Dub,
 D P H Camb

Demr (School Hyg)
 Fail, C J C, L R C S, L R C P,
 F R C P Edin Demr

Radio-Therapy [(C)]

Mayes, F J A, M R C S, L R C P

Skniagraphy [(C)]

Bergin, F G, M R C S, L R C P

Surgery

Morton, C A, F R C S Prof

Groves, E W H, M D, M S,
 B Sc Lond, F R C S (C) Prof

Firth, J L, M D, M S Lond,
 F R C S (C)

Carwardine, T, M B, M S Lond,
 F R C S (C)

Chitty, H, M B, M S Lond,
 F R C S (C)

Walters, C F, F R C S (C)

Moore, C A, M S, M B Lond,
 Ch M, F R C S (C)

Short, A R, B Sc, M D, B S
 Lond, F R C S (C)

Wood, D, F R C S (C)

Adams, A W, M B, B S Lond,
 F R C S (R)

Smyth, H J D, M S Lond,
 F R C S

Lectr to Dental Students
 ((C) in Obstetrics)

Jackman, W A, M B, Ch B (R)

Dental Science

Dental Mechanics

Wing, J C, L D S Lectr *

Dental Surgery, v also Chem
 and Surg

Claremont, L E, L D S, M R C S,
 L R C P Lectr (C) *

Nichols, F C, M B, Ch B,
L D S (also in D Anat)
(C) Demr
Kettlewell, N H, L D S Tutor
Rigg, S K, L D S Tutor

Engineering

(In the Technical College of the
Society of Merchant Venturers)

Applied Chemistry

Wertheimer, J, B A Lond, D Sc,
F I C Prof
Andrews, W A, B Sc Birm,
A I C Lectr
Marsden, A, A I C (R)
Popham, F J W, A I C (R)

Automobile Engineering

Morgan, W, B Sc, M I A E Prof
Marsden, J E (R)

Civil Engineering

Fernier, R M, M Sc Glas,
M I C E, M I Mech E Prof
Francis, W E, B Sc Wales Lectr

Engineering Comm'l Subjects

Griffin, A Lectr

Electrical Engineering

Robertson, D, D Sc Glas,
M I E E Prof
Holmes, S, A M I E E Lectr
2 Instrs

Mechanical and Mining En- gineering

[Prof
Robertson, A, D Sc Edin,
M I Mech E, A M I C E
Watson, F R B, B Sc Fdin
Lectr (Mech E)
Stephens, G A, B Sc
Asst Lectr (Mech E)
6 Instrs

Mining

Sampson, L (R)
Seymour, A T (R)
Rhodes, G W I (R)

French and German for Engin- Students

Shepherd, Dorothy B Asst Lectr

Maths and Physics for Engin- Students

Pickering, A, B Sc Manc (R)
Stockall, G E, B Sc Lond (R)
Palmer, W P, B Sc Lond (R)
Banfield, A D, B Sc (R)
Pugh, G, B Sc (R)
Tincknell, G M, B Sc (R)

University Extension

Director of Extra-mural studies—
H Phillips M A
Extra-mural Lecturers 26 mem-
bers of the staff, including 5
for Tutorial Classes

(R) = Recognized teacher.

GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ of Bristol. The main buildings, including a large extension estimated to cost about £500,000, temporarily stopped by the war, but now being proceeded with, a new building for the accommodation of the Physics department at a cost approaching £200,000, and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof J Wertheimer, B A, D Sc, F I C.

LIBRARIES, 45,000 vols. LABORATORIES Scientific, Medical, and Engineer-
ing, all equipped for purposes of research. Agri-Horticultural station at Long

Ashton with Expl fruit plantations 268 acres devoted to research in fruit-culture, cider-making, plant diseases and their treatment, etc. Fruit and vegetable preservation research station at Chipping Campden, controlled by the Univ on behalf of the Ministry of Agt, for instruction and experimentation on a semi-commercial scale. Hospitals available for clinical study, 2 General (618 beds), Children and Women (108), Eye (40), in all 766 beds

MATRICULATION In common with all other English Univs, Bristol holds School and Higher School Certificate Exams, at which candidates may qualify for matricn. It also recognizes, subject to certain conditions, School Certifs and Higher School Certifs approved as such by the Bd of Educn, Senior and Higher Certifs of the Cental Welsh Boaid, Scottish Leaving Certif in Higher or Honours grade, Special Army Educn Certif, Matricn Examn of any Univ of the U K, Responsions of Oxford, Previous Examn of Cambridge, and graduation in any approved Univ, as qualifying for matricn. The Senate may also declare eligible for matricn a candidate educated outside the U K on proof of having passed equivalent exams, or, if from an Oriental country, of sufficient education and ability to follow instruction given in English

DEGREE COURSES B A, B Sc, B.Sc. in Engineering—3 yrs, including at least 2 in the Univ, Honours in Arts and Pure Science—4 yrs, except for those who enter with Higher School Certif, on an evening class curriculum—6 yrs (Engineering 5 yrs), by research in case of a graduate of another Univ—2 yrs, "Sandwich" Scheme of Training for Engineers, including 30 mos in works—5 yrs, M B, Ch B—5 yrs, after passing a Prelim Science examn in Chem and Physics, B D S—5 yrs, including at least 3 in the Univ, B Agt—5 yrs

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ by the Principal or teachers mentioned above is, for the purpose of the B A degree, deemed to be given in and by the Univ

HIGHER DEGREES M A, D Litt, M Sc, D Sc (in Pure Sc or Engineering), Ch M, M D, Ph D (see p 14). Graduates of other Univs are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M Sc one yr later. Otherwise the Mastership is not granted within 2 yrs after graduating. The M D may be taken 2 yrs after graduating in Med, the D Litt 4 yrs after the M A, and the D Sc 4 yrs (3, if devoted to original work in the Univ) after the M Sc

DIPLOMAS Education (post-graduate) 1 yr, L D S 4 yrs, D P H (for fully registered medical practitioners of 1 yr's standing), 9 months, D V S M (for M R C V S of 1 yr's standing), Engineering 3 yrs (or evening classes 5 yrs)

CERTIFICATES Testamur in Educn, 1 yr, Continuation School Teachers' Certif, 1 yr, Testamur in Social Study, 2 or (Higher Testamur) 3 yrs, Engineering Apprentices, 2 yrs

FEES Matricn, 3 gs, Registration, £1 10s, Tuition, annual, B A, 24 (Theol students, 20½) gs, B Sc, 30 gs, B Sc in Engin, 40 gs (Lab practice alone, 4 gs per term for one day a week), M B, Ch B, entire curriculum, 205 gs, B D S, including mech lab and hosp'l practice, 215 gs, Testamur in Social Study, 2 yrs, 27 gs, Degree exams, B A or B Sc, 9½ gs, Med, 24 gs, Dent, 25 gs, M A and M Sc, 7 gs, Ph D, 9 gs, others, 17 gs. Graduation B A, B Sc, M B, Ch B, B D S, M A, M Sc, 2½ gs, Ph D, 4 gs, Ch M, M D S, D Litt, D Sc, M D, 7 gs. Guild of Undergrads, £1 15s, Univ Union, £1 5s per annum

RESEARCH The Colston Research Society devotes annually about £400 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

SCHOLARSHIPS FOR GRADUATES £160 for research in Engin., £45 and £30 (women only), 32 gs. (men only), for post-graduate course, £35 for Metall. research, £20 for study in English Lit.

RESIDENCE Mortimer House and Canynge Hall for men—from £75 and £67 10s p a, Clifton Hill House and 4 other residences for women students—from 50 gs p a.

PUBLICATIONS *Calendar*, Faculty prospectuses issued in June, annual report of Council, Students' Mag *Nonesuch*, 9d.

THE YEAR 1922-23

SPECIAL EVENTS Appointment of new Vice-Chancellor, formerly Principal of University College, Southampton.

BENEFACTIONS Bequest of late Pro-Chancellor H. H. Wills, one-eighth of his residuary estate for general capital purposes, buildings, etc., or endowment, Sir George A. Wills, expense of putting extension of Athletic Ground into playing order; Messrs Brunner, Mond & Co., £490 for research in Chemistry.

NEW POSTS Prof. of Agric. (on re-opening of R.A.C., Cirencester), Director of Legal Studies, Director of extra-mural studies.

OTHER NEW DEVELOPMENTS New Degree of B. Agr. instituted in co-operation with R. Agr. College, Cirencester. Prescribed period of curriculum for M.B., Ch.B. defined as 5 yrs. after passing a Prelim. Science examn. in Chem. and Physics instead of 5½ yrs. Dept. of Legal Studies established. Interchange of Lectures in English between the Univ. and Univ. College, Reading. One-year course of training in teaching of Music for teachers who already have special qualifications in Music.

RESIGNATIONS Prof. C. D. Broad, Registrar James Rafter.

DEGREES CONFERRED. B.A., 63 (including women—35), B.Sc., 48 (women—14), B.Sc. Eng., 44, M.B., 15 (w—5), M.A., 4 (w—3), M.Sc., 4 (w.—1), Ph.D., 3.

STUDENTS. Day students preparing for B.A., 180 (including women—124, and including 85 four-year Training students), B.Sc., 229 (w—68, four-year T.S., 104), M.B., 150 (w.—34), B.D.S., 2; B.Sc. in Engin., 132, other undergrads, 96 (2-year T.S., 88). Graduates, 107 (w—30). Other day students, 222, including 65 Engineering. Evening in Engin., 747; in Italian, 4.

UNIVERSITY EXTENSION 9 Tutorial Classes in Bristol, Hanham (Glos.), Bath, Swindon, Radstock, and Weymouth, Special Extension Course at Horfield (League of Nations Branch), 13 one-year, preparatory to Tutorial Classes, Summer School in Bristol—5 Courses, 8 Public Lectures at the Merchant Venturers' Technical College, average attendance, 555. Organization of Extra-mural work was placed in the hands of a Director.

UNIVERSITY OF CAMBRIDGE

CHANCELLOR—Rt Hon EARL OF BALFOUR, K G , O M , M A , Hon LL D Trin

VICE-CHANCELLOR—E C PEARCE, D D Corp

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K G , G C M G , G C V O , M A , Hon LL D Trin

DEPUTY HIGH STEWARD—Rt Hon J F P RAWLINSON, LL M , Hon LL D Trin , K C , M P

REPRESENTATIVES IN PARLIAMENT—Rt Hon J F P RAWLINSON, LL M , Hon LL D Trin , K C , Sir GEOFFREY BUTLER, K B E , M A Corp

PROCTORS F R SALIER, M A Magd , J M WORDIE, M A Joh

PUBLIC ORATOR—F R GLOVER, M A Joh

REGISTRARY—J N KEYNES, Sc D Pemb

LIBRARIAN—A F SCHOLFIELD, M A , King's and Trin

HEADS OF COLLEGES

CHRIST'S	<i>Master</i>	Sir A E SHIPLEY, G B E , Sc D
CLARE	"	W L MOLLISON, LL D
CORPUS CHRISTI	"	E C PEARCE D D
DOWNING	"	Prof A C SEWARD, Sc D
EMMANUEL	"	P GILES, Litt D
GONVILLE AND CAIUS	"	Sir H K ANDERSON, M D
JESUS	"	A GRAY, M A
KING'S	<i>Provost</i>	Sir W DURNFORD, G B E , LL D
MAGDALENE	<i>Master</i>	A C BENSON, C V O , LL D
PEMBROKE	"	W S HADLEY, LL D
PETERHOUSE	"	Sir A W. WARD, Litt D
QUEENS'	<i>President</i>	T C FITZPATRICK, D D
ST CATHARINE'S	<i>Master</i>	Rt Rev Bishop T W DRURY, D D
ST JOHN'S	"	Sir R F SCOTT, M A
SIDNEY SUSSEX	"	G A WEEKES, M A
TRINITY	"	Sir J J THOMSON, O M , M A , Hon Sc D
TRINITY HALL	"	H BOND, LL D
SELWYN (Public Hostel)	"	J O F. MURRAY, D D
FITZWILLIAM HALL		
(Non-Collegiate Students) <i>Censor</i>		W F REDDAWAY, M A King's

RECOGNIZED COLLEGES FOR WOMEN

GIRTON	<i>Mistress</i>	Miss B S PHILLPOTTS, O B E , Lat D Dub
NEWNHAM	<i>Principal</i>	Miss J P STRACHEY, M A Dub

PROFESSORS, LECTURERS, ETC, January 1, 1924

<i>Agriculture</i> , v also Animal, Fstate Man, Forestry Wood, T B, C B E, M A Cai Drapers Prof Mackenzie, K J J, M A Chr Reader Venn, J A, M A Trin Gilbey Lectr Amos, A, M A, Down Lectr Barber, C A, Sc D Chr Lectr in Tropical A	<i>Architecture</i> [Dir of Design Lyon, T H, M A (orp Fyfe, T, F R I B A Master of the School <i>Art</i> [Slade Prof of Fine Art Prior, F S, M A Cai <i>Astronomy</i> [Plumian Prof Eddington, A S, M A Trin Smart, W M, M A Trin Adams Astronomer <i>Astron & Geom</i> [Lowndean Prof Baker, H F, Sc D Joh <i>Astrophysics</i> , v also Meteor Newall, H F, M A Trin (Dir of Solar Phys Obs) Prof Milne, E A, M A Trin Lectr & Asst Dir Wilson, C T R, M A Sid Obs in Meteorological Phys Baxandall, F E, A R C Sc Sen Solar Physics Observer Butler, C P, A R C Sc Sen Solar Physics Observer Moss, W Junr Solar Phys Obs <i>Bibliography</i> [Sandars Reader Walker, Emery, F S A <i>Bio-Chemistry</i> [Sir W Dunn Prof Hopkins, F G, M A Trin Haldane, J B S, M A Trin Sir W Dunn Reader Hels, T S, M D Emm Lectr Dixon, M, M A Emm Lectr & Senr Demr <i>Biology</i> [Quick Prof Nuttall, G H F, Sc D Magd (Dir of Molteno Inst of <i>Parasitology</i>) Keilin, D, M A Magd Asst Brindley, H H, M A Joh (Elem B for med students) Demr
<i>Agric Botany</i> Biffen, R H, M A Cath Prof <i>Agric Physiology</i> [Reader Marshall, F H A, Sc D Chr <i>Anatomy</i> , v also Zool Wilson, J T, M A Joh Prof Duckworth, W L H, M D, Sc D Jes (Human A) Reader (Human A) Lectr Shearer, C, Sc D Cla (Embryo- logy) Lectr Appleton, A B, M D Down Senr Demr Reid, D G, M A Trin Junr Demr Hopkinson, A, M A, M B, B Ch Emm Junr Demr Pennell, V C, M A, M B, B Ch Pemb Addl Demr <i>Anglo-Saxon</i> Chadwick, H M, M A Clare Elrington and Bosworth Prof <i>Animal Pathology</i> Buxton, J B, Hon M A Prof <i>Anthropology</i> , v Fth <i>Arabic</i> v Oriental <i>Archæology</i> , v also Clas A, Pal Ridgeway, Sir Wm, Sc D Cai Disney Prof	

Botany, v also Agric
 Seward, A C, Sc D Down Prof
 Blackman, F F, M A Joh Reader
 Thomas, H H, M A Down Lectr
 Brooks, F T, M A Emm Lectr
 Wadham, S M, M A Chr. Senr Demr
 Godwin, H, B A Cla Junr Demr
 Briggs, G F, M A Joh (Plant Physiol) Demr
Chemistry, v also Bio- and Phys C and Med (Path)
 Pope, Sir Wm J, K B E M A Sid Prof
 Mann, F G, Ph D Down Asst to Prof
 Fenton, H J H, Sc D Chr Lectr and Demr
 Dootson, F W, M A Trin H Lectr and Addl Demr
 McCombie, H, M A King's Addl Demr
 Palmer, W G, M A Joh † Addl Demr
 Berry, A J, M A Down †
Chemistry, Organic
 Mills, W H, M A Jes Lectr
Chem and Phys for Hygiene, etc
 Purvis, J E, M A Corp Lectr
Classical Archaeology
 Cook, A B, M A Qu Reader
Classics, Epigraphy, etc
 Campbell, S G, M A Chr Lectr
 Pearson, A C, Litt D Trin (Greek) Reg Prof
 Housman, A E, M A Trin (Latin) Kennedy Prof
 Ridgeway, Prof Sir Wm, Sc D Cai (v Arch) Brereton Reader
Crystallography, v Mineralogy
Divinity, v also Orient Langs, Religion [Ely Prof
 Brooke, A F, D D King's

Barnes, W E, D D Pet Hulsean Prof
 Bethune-Baker, J F, D D Pemb Lady Margaret's Prof
 Burkitt, F C, D D Trin Norrisian Prof
 Nairne, A, D D Jes Reg Prof
 Whitney, J P, D D Fmm (Eccles Hist) Dixie Prof
 (Past Theol) Lectr
 McDowall, S A, B D Trin Hulsean Lectr
Economics, v also Geog, Geol, Pol Econ [Gudlers' Lectr
 Lavington, F, M A Emm
 Shove, G F, M A King's Lectr Lectr
Education
 Fox, C, M A Chr Lectr *
Engineering, v *infra*
English
 Quiller-Couch, Sir A T, M A Jes K Ed VII Prof of E Lit
 Coulton, G G, M A Joh Lectr
Estate Management [Reader
 Smith, F B, C M G, M A Down
Ethnology
 Haddon, A C, Sc D Chr Reader
Forestry
 Dawson, W, M A Cai Reader
 Stone, H, M A Lectr
 Cox, H A, B A Gurney Lectr
French [Drapers Prof
 Prior, O H P, M A Joh
 Stewart, H P, D D Trin Reader
Genetics [Arthur Balfour Prof
 Punnett, R C, M A Cai
Geodesy
 Lenox-Conyngham, Col Sir G. P, M A Trin Reader
Geography, v also Surv
 Lake, P, M A Joh Reader
Geog, Historical and Econ
 Stanners, R W, M A Cai Lectr

* Apptd by teachers' Training Syndicate.

† Recognized teacher for medical students

Geology, v also Mineral, Palæozoöl, Petrol

Marr, J E, Sc D Joh

Woodwardian Prof

King, W B R, O B E, M A

Magd Asst

Nicholas, T C, O B E, M A Trin

Demr

Rastall, R H, Sc D Chr (Econ

G) Lectr

German [Schroder Prof

Breul, K, Litt D King's

Bennett, E K, M A Cai Lectr

Hebrew, v Oriental

History, Ancient

Reid, J S, Litt D Cai Prof

Glover, T R, M A Joh Lectr

History, Eccl, v Div

History, Indian [Lecti *

Moriarty, G P, M A Pemb

History, Modern [Reg Prof

Bury, J B, M A King's

Temperley, H W V, O B E,

M A Pet Reader

History, Naval

Rose, J H, Litt D Chr,

Vere Harmsworth Prof

Hygiene, v Med

Italian

Okoy, T, M A Cai Prof

Pettoello, Signor D, Dr Phil

Torino Teacher †

Law [Downing Prof

Hazeltine, H D, Litt D Down

Law, Civil

Buckland, W W, M A, LL D

Cai Reg Prof

Law, English [Reader

Hollond, H A, O B F, M A Trin

Law, Indian

Macleod, R H, M A Cai Lectr *

Law, Internat

Higgins, A Pearce, C B E, LL D

Down

Whewell Prof

Literature

Leslie Stephen Lectr

Logic, v Philos

Mathematics

Larmor, Sir Joseph, M A, Hon

Sc D, Joh Lucasian Prof

Hobson, E W, Sc D Chr (Pure

M) Sadleirian Prof

Littlewood, J E, M A Trin

Cayley Lectr

Berry, A, M A King's Lectr

Bromwich, T J I'A, Sc D Joh

Lectr

Fowler, R H, M A Trin Lectr

Harrison, W J, M A Clare Lectr

Herman, R A, M A Trin Lectr

Lamb, H, M A, Hon Sc D Trin

Rayleigh Lectr

Medicine and Surgery, v *infra*

Metallurgy [Goldsmiths' Reader

Heycock, C T, M A King's

Meteorology, Electrical

Wilson, C T R, M A Sid Reader

Military Subjects

Thornton, Lieut -Col L, C M G,

D S O, Hon M A Cai

Director of Studies ‡

Mineralogy

Lewis, W J, M A Trin Prof

Hutchinson, A, O B E, M A

Pemb

Lectr (Crystallography)

and Demr

Music

[Prof

Stanford, Sir Charles V, Mus D

Wood, C, Mus D Cai

(Harmony and Counterpoint)

Lectr

Oriental Langs, v *infra*

Palæography, v also Bibliog

Minns, E H, Litt D Pemb Lectr

* Apptd by Board of I C S Studies

† Apptd by Spl Board for Med and Mod Langs

‡ Apptd by Board of Military Studies

Palæozoology
 Woods, H, M A Joh Lectr

Parasitology, v Biol
Petrology
 Harker, A, M A Joh Reader
 Tilley, C E, Ph D Emm Demr

Philology, Comparative
 Giles, P, Litt D Emm Reader

Philosophy, Mental, and Logic
 Ward, J, Sc D, Hon LL D Trin Prof
 Moore, G E, Litt D Trin (Moral Science) Lectr
 Johnson, W E, M A King's (Moral Science) Sidgwick Lectr

Philos, Moral, v also Religion
 Sorley, W R, Litt D King's Knightbridge Prof

Philos, Natural
 Jacksonian Prof Demr

Physical Chem
 Lowry, T M, C B E, M A Trin H Prof
 Rideal, E K, M A Trin H H O Jones Lectr

Physics, v also Chem, Philos
 Rutherford, Sir E, M A Trin Cavendish Prof of Expl P
 Thomson, Sir J J, O M, M A, Hon Sc D Trin Prof
 Searle, G F C, Sc D Pet Lectr & Demr
 Wood, A, M A Emm Lectr
 Thirkill, H, M A Clare Demr
 Bedford, T G, M A Sid Addl Demr *

Crowther, J A, Sc D Joh (v also Med Rad) Asst Demr
 Appleton, E V, M A Joh Asst Demr
 Whetham, W C D, M A Trin *
 Sleeman, C M, M A Qu *

Physiology, v also Agric, Bio-Chem
 Langley, J N, Sc D Trin Prof
 Barcroft, J, C B E, M A King's Reader.
 Hardy, W B, M A Cai Lectr.
 .. . Lectr
 Shore, L E, M D Joh Lectr
 Roberts, Ff, M D Clare Junr Demr
 Parsons, T R, M A Sid Addl Demr
 Adrian, E D, M D Trin Lectr in Advanced P

Physiol of the Senses
 Hartridge, H, M D, Sc D King's (also Senr Demr in P) Lectr

Political Economy, v also Econ
 Pigou, A C, M A King's Prof

Portuguese, v Spanish

Psychology, Exper, v also Med - Psych
 Bartlett, F C, M A Joh (Dir of the Psych Lab) Reader
 Sprott, W J H, B A Cla Demr

Religion, Philosophy of
 Widgey, A G, M A Cath Lectr

Romance [Reader
 Braunscholtz, E G W, M A King's

Russian
 Goudy, A P, M A Clare Lectr

Sanskrit, v Oriental

Spanish [Reader
 Kirkpatrick, F A, M A Trin
 Alonso, Don Dámaso Teacher †
 Norman Maccoll Lectr in Span and Port

Statistics [Lectr
 Yule, G Udny, C B E, M A Joh

Surveying and Cartography
 Debenham, F, O B E, M A Cai R G S Lectr

* Recognized teacher for medical students

† Apptd by Spl Board for Med and Mod Langs

Theology, v Div*Zoology*, v also Med Entom,
Palæoz

Gardiner, J S, M A Cai Prof
Borradaile, L A, Sc D Selw

Lectr

Browne, F Balfour, M A Cai
Lectr

Potts, F A, M A Trin H Lectr

Gadow, H, M A King's (Morph
of Vertebrates) Reader

Saunders, J T, M A Chu (Animal
Morph) Demr

Fox, H M, M A Cai
Demr (Comp Anat)

Engineering*Aeronautical Engineering*

Jones, B M, M A Emm
F Mond Prof

Electrical Engineering [Reader]
Lamb, C G, M A, Sc D

Mechanism and Appl Mechanics
Inghs, C E, O B E, M A King's
Prof

Peake, A H, M A Joh
Senr Demr

Peel, T, M A Magd Demr

Womersley, W D, M A Emm
Demr

Mechanical Engineering

Landon, J W, M A Cla Lectr

Thermodynamics

Lees, S, M A Joh
Hopkinson Lectr

Medicine (for subjects of the first
2 yrs - Anat, etc, v *supra*)

Hygiene, v Prev Med, Chem*Medical Chemistry*

Cole, S W, M A Trin Lectr

Medical Entomology

Warburton, C, M A Chr Demr.

Medical Jurisprudence

... .. Lectr

Medical Radiology & Electrology
Scales, F Shillington, M D Jes

Lectr

Crowther, J A, Sc D Joh
(Physics as applied to M R)

Lectr

Medicine

Bradbury, J B, M D Down
Downing Prof

Jones, E Lloyd-, M D Down
Demr

Inchley, O, M D Joh
Asst to Prof of Med

Pathology

Dean, H R, M D Trin H Prof

Cobbett, L, M D Trin Lectr

Swann, M B R, M A Cai Demr

Pathology, Special

Strangeways, T S P, M A Joh
Huddersfield Lectr

Path Chem

Lectr

Pharmacology

[Reader

Dixon, W E, M A Down (As-
sessor to Reg Prof Physic)

Physic

Allbutt, Rt Hon Sir T Clifford,
K C B, M D, Hon LL D
Cai Reg Prof

Preventive Medicine

[Reader

Graham-Smith, G S, M D Pemb

Psychopathology

[Lectr

MacCuidy, J T, M A Corp

Surgery

Roderick, H B, O B E, M D,
M Ch Emm Demr

Vaccination

[Teacher

Deighton, F, M A, M B Pet

Members of Hospl Staff (not in-
cluded under above subject-
headings) approved as Univ
Teachers J Aldren Wnght,
M D Sid, J Griffiths,
C M G, M D, M Ch King's,
A Cooke, M A Trin, M B,
G S Haynes, M D King's,
W H Bowen, M S, C H
Budd, M A Cla, B M

Oriental Languages

Arabic [Sir T. Adams Prof
Brown, E. G., M.A., M.B. Pemb.
Bevan, A. A., M.A. Trin
Lord Almoner's Prof
Ibrāhīm, Shaykh Muḥd. Abu'
Bakr (A. and *Persian*) Lectr *

Aramaic

McLean, N., M.A. Chr Lectr

Bengali

Samman, H. F., Emm Lectr †

Burmese

Hertz, W. A., C.S.I. Lectr †

Chinese

Giles, H. A., M.A. Trin Prof

Hebrew

[Reg Prof
Kennett, R. H., D.D. Qu

Hindi, Urdu and,

[Lectr †
Phillott, Lt.-Col. D. C., M.A. Cai

Marathi

Moore, R. A. Leslie, Pet Lectr †

Persian, v. also Arabic [Lectr
Nicholson, R. A., Litt. D. Trin

Sanskrit

Rapson, E. J., M.A. Joh Prof
Rouse, W. H. D., Litt. D. Chr
(S. and Palh) Lectr †

Talmudic

Abrahams, I., M.A. Chr Reader

Tamil

Wyatt, J. L., M.A. Chr Lectr †

Telugu

Parsons, F. C., M.A. Trin Lectr †

Turkish

Zafir, Abdul Cadır Lectr *

University Extension

James Stuart Lectrs J. Travis
Mills, M.A., and G. P. Bailey,
Hon. M.A. 38 other Lectrs,
v. pp. 54, 57

* Apptd. by For Service Students' Committee

† Apptd. by Board of I.C.S. Studies

THE COLLEGES

[College Lecturers are indicated by the names of subjects in italics]

CHRIST'S COLLEGE Founded 1505 Master—Sir A. E. Shipley, G.B.E.,
Sc.D., F.R.S.

Fellows Campbell, S. G., M.A., *Classics*, Bursar, Downs, B. W., M.A.,
† *Med. and Mod. Langs. and Engl.*, * Grose, S. W., M.A., Librarian, Haddon,
A. C., Sc.D., F.R.S. (Reader in Ethnol.), Hobson, E. W., Sc.D., F.R.S. (Prof.
of Pure Maths.), * McLean, N., M.A., Praelector, † *Orient. Langs.*, *Hebrew*,
Marshall, F. H. A., Sc.D., F.R.S., † *Nat. Sc. and Agric.* (Reader in Agric.
Physiol.), Mercer, J., M.A., F.R.S., *Maths.*, Rackham, H., M.A., *Classics*,
* Saunders, J. I., M.A., Steward, Valentine-Richards, A. V., M.A., Dean,
† *Theol.*, Vines, H. W. C., M.A., M.D., † *Med.*, Wyatt, J. C., O.B.E., M.A.,
† *Mech. Sc.*, Murray, E. G. D., O.B.E., M.A., Steen, S. W. P., B.A.

Other Lectrs, etc. Dean, W. R., B.A., *Maths.*, Pettitt, G. B., M.A.,
† *Hist.*, Rastall, R. H., Sc.D., *Nat. Sc.*, Robinson, E. A. G., B.A., † *Econ.*,
Wheatcroft, W. H., M.A., LL.D., Down, † *Law*

CLARE COLLEGE Founded 1326 Master—W. L. Mollison, M.A., LL.D.

Fellows Berwick, W. E. H., M.A., Carry, G. V., M.A., Chadwick,
H. M., M.A., Elrington and Bosworth Prof. of Anglo-Saxon, Forbes, M. D.,
M.A., *Engl.*, Librarian, Fulford, H. W., M.A., Harrison, W. J., M.B.E.,

* Tutor

† Director or Supervisor

M A., *Maths. and Mech Sc*, Finan Tutor and Steward, Henderson, H D, M B E, M A, † *Econ*, Landon, J W, M A, † *Mech Sc*; Nock, A D, B A, *Classics*, Priestley, R E, M A, † *Agr*, Roberts, Ff, M.A., M.D., † *Med*, *Physiol*, Telfer, W, M A, † *Theol*, Asst Tutor, Dean, and Prælector, * Thirkill, H, M A, *Phys and Chem*, Wardale, J R, M A, *Classics*, Wilson, G. H A, O B E, M A, Bursar

Other Lectrs, etc Appleton, E V, M A, † *Mineralogy*, Brindley, H H, M A Joh, *Biol and Zool*, Brooks, F. T, M A, † *Bot*, Dobb, M H, B A, † *Econ*, Gaskoin, C J B, M A, † *Hist*, Scarborough, H A, M A, † *Chem*, Stokoe, F W, M A, † *French*, Wheatcroft, W H, M A, LL D, † *Law*, Johnson, W E, M A, † *Moral Sc*

CORPUS CHRISTI COLLEGE. Founded 1352 Master—E C. Pearce, D D

Fellows † Butler, Sir Geoffrey, K B E, M A, Librarian, *Hist*, Campbell-Smith, W, M A, Clark-Kennedy, A E, M A, † *Med*, Goodhart, A L, M A, † *Law*, Hoskyns, E C, M A, † *Theol*, Dean of Chapel, Morris, G G, M A, Steward and Prælector, † *Classics*, Pickthorn, K W M, M A, Dean of College, † *Hist*, Pollock, C A E, M A, President, Bursar, Robinson, E A G, B A, *† Spens, W, C B E, M A, *Nat Sc*, Thomson, G P, M A, Thoulless, R, M A, Ph D

Other Lectrs, etc Farren, W S, M A, † *Mech Sc*, Moinber, R M S T, M A, † *Mod Langs*, Petherbridge, F R, M A, † *Agric*, Lyon, T H, M A, † *Archit*, Winfield, P H, LL D, † *Law*

DOWNING COLLEGE. Founded 1800 Master—A C Seward, Sc D, M A, F R S, Prof. of Botany.

Fellows † Ainos, A, M A, Bursar, *Agric*, † Berry, A J, M A, *Chem and Phys*, Bradbury, J B, M D, F R C P, Prof of Med, † Harris, D L, M A, Reader in *Law*, Hazeltine, H D, Litt D, Prof of Laws of England, Kenny, C. S, LL D, Saunders, J C, M A, † Thomas, H Hamshaw, M B E, M A, Dean and Steward, *Bot*, *† Widdicombe, J H, M A, Prælector, *Physiol*, Perry, T G, B A, *Physics*.

Other Lectrs and Supervisors Appleton, A B, M D, *Human and Comp Anat*, Brown, B G, M A, *Hist*, Fox, C, M A, *Mor Sc*, French, C H, M A, *Maths*, Morris, G G, M A, *Class*, Portway, D, M A, *Engin*, Thatcher, W S, M A, *Econ*, Webb, H A, M A, Trun, *Maths*, Wheatcroft, W H, LL D, *Law*, Wyatt, A J, M A Chr, *Med and Mod Langs*, Sayers, L D, M A, *Biol*, Chaplain, Barker, J W, M A, *Mod Langs*

EMMANUEL COLLEGE Founded 1584 Master—Peter Giles, Litt D, Reader in Comp Philol

Fellows Allcock, W B., M A, Attenborough, F L, M A, † *Engl*, Bennett, G T, Sc D, F R S, Burnaby, H, M A, *Divinity*, Dean, Gardner, R, M.A, *Class*, Bursar and Steward, * Greenwood, L H G, M.A, Prælector, *Class.*, *Mod Langs.*, *Law*, *Mor Sc*, etc, * Hele, T S, O B E, M A, M D, *Nat. Sc*, † *Physiol*, Jones, B M, M A, A F C, Mond Prof of Aeronautics, Lavington, F, M A, † *Econ*, Line, J, M A, A F C, † *Bot and Agric*, Steward, G. C., M A, *Maths*, Wallace, J C, M A, † *Mech Sc*, Welbourne, E, M A, *Hist*; Whitney, J P, D D., Prof of Eccl Hist, * Wood, A, M A, *Nat Sc*, * Wood, P. W, M.A, Librarian, *Maths*

Other Lectrs, etc Brndley, H H, M A Joh, † *Biol and Zool*, Bul-lough, E., M A Cai, † *Mod Langs*, Dewing, E S, B A, † *Mineral*, Johnson, W. E, M A King's, † *Mor. Sc*, Naylor, E. W, Mus D, *Music*, Norrish, R. G. W, B.A, † *Chem.*, Henderson, S T, B A., † *Chem.*, Steers, J A.,

* Tutor.

† Director or Supervisor

† Geog.; Woods, H, M A, F R S, Joh, † Geol; Ziegler, C H., LL M.,
† Law; Hopkinson, A, M A, M B, B Ch, † Anat.

GONVILLE AND CAIUS COLLEGE Founded 1348 Master—Sir H K Anderson, M D, F R S

Fellows * Allbutt, Rt Hon Sir T C, K C B, M D, F R S, Prof of Physic; Bennett, E. K, M A, † Brooke, Z N, M A, Prælector, *Hist*, Buckland, W W., LL D, Prof of Civ Law, President, † Bullough, E, M A, *Mod Langs.*, Steward, † Cameron, J. F., M A, Bursar, *Maths*, Chadwick, J, Ph D, † Cook, S A., M A, Litt D., *Heb and Syriac*, *Comp Study of Religions*, *† Debenham, F, O B E, M A, *Geog*, Fisher, R A, M A, Fox, H M, M A, † Gallop, E G, M A, *Maths*, Gardiner, J S, M A, F R S, Prof of Zool, † Hardy, W B, M A, Sec R S, *Nat Sc*, * Hunkin, J. W, O B E, M A, Dean and Catechist, *Divinity*, Lock, C N H, M A, † McNair, A D, C B E, LL M, *Law*, Muir, M M P, M A, Myers, C S, C B E, Sc D, F R S, *Exp Psych.*, Okey, T, M A, Prof of Italian, † Peters, R A, M A, M D, *Physiol*, † Phear, H W., M A, *Engin*, Prior, E S, A R A, M A, Prof of Fine Art, Punnett, R C, M A, F R S, Prof of Genetics, Reid, J S, LL M, Litt D, Prof of Anc Hist, Ridgeway, Sir W, Sc D, Prof of Archæol, *† Scott, J E, M A, Tutor and Lecturer, *Class*, *† Stratton, F J M, M A, *Maths*, Swann, M B R, M A, M B, B Ch., *Med*, † Vesey, W T, M A, *Class*, Wallis, Rt Rev F, M A, D D, † Wood, C, Mus D, *Music*, Wood, T B, C B E, M A, F R S, Prof of Agric

Other Lectrs. and Directors, etc Claye, H, M A, *Agric*, Fluchère, H A E, Lector in French, Oliver, D T, LL M Trin H, *Law*, Schneider, G A S, M A, Librarian, Smith, H E, M A, Chaplain, Stanners, R W, M A, *Econ*

JESUS COLLEGE Founded 1496 Master—A Gray, M A

Fellows * Abbott, E, M A, *Classics*, Barnes, H, B A, LL B, *Law*, † Duckworth, W L H, M D, Sc D, Asst Tutor, *Nat Sc* (Reader in Human Anat), Duke, W H, M A, Steward, *Classics*, †* Elliott, C A, M A, Librarian, *Hist*, Foakes-Jackson, F J, M A, D D, Gardner-Smith, P, M A, Dean, *Theol*, Manning, B L, M A, Bursar, *Hist*, † Mills, W. H., M A, *Nat Sc*, Nairne, A, M A, D D, *Theology* (Regius Professor of Div), Pars, L A, M A, Prælector, *Maths*, Quiller-Couch, Sir A. T, M A, Prof of Engl Lit, Watt, J C, M A, Welsh, W, M A, Asst Tutor, *Maths*

Other Directors of Studies Alston, L, M A, † Econ, King, W B R, M A, † Geol, Brauholtz, E G W, M A King's, † Mod and Med Langs, Lyon, T H, M A Corp., † *Architecture*, Petherbridge, F R, M A Sid, † *Agric*, Shove, G F, M A, † Econ, Tillyard, E M. W, O B E, M A Jes, † *Engl*, Womersley, W D, M A Emm, † Mech Sc, Wyatt, A J, M A Chr, † Mod and Med Langs

KING'S COLLEGE Founded 1441 Provost—Sir Walter Durnford, G B E, LL D

Fellows Adair, G S., B A, Adcock, F. E, M A, O B E, *Classics*; Baker, P J, M A, Barcroft, J, M A, F R S, C B E, Asst Tutor, *Nat Sc*. (Reader in Physiol), Berry, A, O B E, M A, Asst. Tutor, *Maths*, Birch, F. L, M A, O B E, *Hist*, Brooke, A. E, D D, *Div*, Prof of Div; Bury, J B, M A, Prof of Mod Hist, Blackett, P M. S., B A, Cholerton, A. T, M A., * Clapham, J. H, Litt D., C B E, *Hist*, Corbett, W J, M A, Bursar, Dickinson, G L, M A; Durnford, H G E., M A.,

* Tutor

† Director or Supervisor

Prælector and Bursar, Grant-Ives, C E, M A, Gray, J, M A, Dean, Harris, W. M, M A, Hartridge, H, M A, M D, Sc D, Heycock, C T, M A, F R S, *Nat Sc* (Reader in Metallurgy), Hill, A. V, O B E, Sc D, F. R S, Hollingworth, H, M A, Inghs, C E, M A, O B E, Prof of Mechanism; Johnson, W. E, M A; Keynes, J M, M A, C B, Bursar, *Econ*, Lubbock, A, B A, Lucas, F L, M A, Librarian, *Engl*, Macaulay, W H, M A, Vice-Provost, McCombie, H, M A, Asst Tutor, *Nat Sc*, Mann, A H, Hon M A, Mus D, Milner-White, E, M A, Dean and Chaplain, Ord, B, Mus B, Phillpotts, S B, M A, Pigou, A C, M A, Prof of Pol Econ, Reddaway, W F, M A, *Hist*, Richmond, H W, M A, F R S, *Maths*, Scholfield, A. F, M A, Sheppard, J T, M B E, M A, Asst Tutor, *Classics*, Sills, H H, M A, Asst Tutor, *Classics*, Sorley, W R, Litt D, Prof of Mor Philos, Tilley, A A, M A, *Mod Langs*, Turner, L B, M A, Asst Tutor, *Mech Sc*, Walston, Sir Charles, M A, Litt D, Wedd, N, M A, Wollaston, A F R, M A, B Ch, D S C

Other Lectrs, etc Carr, F, LL D, † Law, Shove, G F, M A, *Econ*, Stokoe, F W, M A, † *Mod Langs*

MAGDALENE COLLEGE. Founded 1542 Master—A C Benson, C V O, LL D, † *Hist*

Fellows Gaselec, S, C B E, M A, † *Palaog*, King, W B R, O B E, M A, *Nat Sc*, Morshead, O I, M A, Librarian and Asst Steward, Nuttall, G H I, Sc D, F R S, Prof of Biol, † Med, Peel, T, M A, Bursar and Steward, † *Engin*, Peskett, A G, M A, * Ramsey, A S, M A, President, † *Maths*, Salter, F R, M A, Dean, *Hist*, † *Econ*, Scott, F R I, B A, Turner, F M C, B A, Vernon Jones, V S, M A, Asst Tutor and Prælector, † *Classics*

Other Directors of Studies, etc Adie, R H, M A, † Agric, Petherbridge, F R, M A, † Agric, Vulliamy, E O, M A, † *Mod Langs*, Clark, F H H, M A, *Hist*, † Theol, Brindley, H H, M A, † Biol, Crowther, J A, Sc D, † Phys, Winfield, P H, LL D, † Law, Foster, W H, M A, † Chem, Richards, I A, M A, *Engl* and *Mor Sc*

PEMBROKE COLLEGE Founded 1347 Master—W S Hadley, LL D, *Classics* and *Mod Hist*

Fellows Attwater, A L, Prælector, M A, *Engl*, Bethune-Baker, J I, M A, D D, Prof of Div, Birtwistle, G, M A, Assistant Tutor, *Maths*, Browne, E G, M A, M B, F R C P, Prof of Arabic, President, Comber, H G, M A, Treasurer (Estates), *Mod Langs*, Hutchinson, A, O B E, M A, F R S, Asst Tutor, *Nat Sc*, * Lawson, J C, O B E, M A, *Classics and Mod Greek*, McClelland, N P K J O'N, M A, Bursar (Home), *Nat Sc*, Minns, E H, M A, Litt D, Librarian, *Russian*, Pennell, V C, M A, M B, B Ch, F R C S, † Med, *Nat Sc*, Spittle, J T, O B E, M A, † *Mech Sc*, Asst Tutor, Tutorial Bursar, Whibley, L, M A, *Anc Hist*, Wynn, H E, M A, Dean, Asst Tutor, *Hist*

Other Lectis, etc Moriarty, G P, M A, *Classics and Hist*, Thatcher, W S, M A, † *Econ*, Vulliamy, E O, M A, *Mod Langs*, Ziegler, C H, LL M, *Law*, Dobb, M H, B A, † *Econ*

PETERHOUSE OR ST. PETER'S COLLEGE Founded 1284. Master—Sir A. W. Ward, M A, Litt D

Fellows Barnes, W E, D D. (Prof of Div), Butterfield H, B A, Clayton, G H, M A, † Theol, Dickson, J D H, M A, Francis, E C, B A, † *Maths*, Gillet, C S, M A, † Theol, Dean, Chaplain, and Prælector, Hallward, B L, B A, *Classics*, Lubbock, R, M A, † *Mech Sc*, Asst Tutor, Junior Bursar

* Tutor.

† Director or Supervisor.

and Steward, Temperley, H. W. V., M.A., O.B.E., Asst Tutor, † *Hist* (Reader in Mod Hist), Librarian, * Vellacott, P. C., M.A., † *Hist*, Walker, T. A., M.A., LL.D., Senior and Tutorial Bursar, † *Law*

Other Lectrs, etc Comber, H. G., M.A., † Mod and Med Langs, Pennell, V. C., M.A., † Med, Willey, B., M.A., † Engl, Winfield, P. H., LL.D., † Law, Wright, C. W. B., M.A., † Agric

QUEENS' COLLEGE Founded 1448 President—T. C. Fitzpatrick, D.D., † Nat Sc

Fellows Browne, A. D., M.A., Bursar, † Mech Sc, Cook, A. B., M.A., *Classics* (Reader in Class Archæol), * Gray, J. H., M.A., *Classics*, Kennett, R. H., D.D., Prof of Hebrew, Laffan, R. G. D., M.A., Chaplain, *Engl Hist and Lit*, † Hist, Munro, A., M.A., Bursar and Steward, *Maths*, * Sleeman, C. M., M.A., *Nat Sc*, Wood, C. T., M.A., Dean and Chaplain, *Div and Hebrew*, * Wright, A., D.D., Vice-President

Other Directors of Studies, etc Momber, R. M. S. T., M.A., † Mod Langs, Carr, F., LL.D., † Law, Plaistowe, F. G., M.A., Librarian

ST CATHARINE'S COLLEGE Founded 1473 Master—The Rt. Rev T. W. Drury, D.D., † *Theol*

Fellows Bifen, R. H., M.A., F.R.S., Prof of Agric Bot; Carr, E. T. S., M.A., Chavtor, H. J., M.A., Asst Tutor, Dean, and Librarian, † *Mod Langs*, Jones, W. H. S., M.A., Bursar and Steward, † *Class*, *Anc Hist*, Newman, L. F., M.A., † *Agric* and Nat Sc, Portway, D., M.A., † *Mech Sc*, * Rushmore, I. M., M.A., Senr Tutor, President, † *Hist*, Withers, J. J., C.B.E., M.A.

Other Lectrs, etc Alston, L., M.A., † Econ, Birtwistle, G., M.A., † Maths, Cari, F., LL.D., † Law, Fox, C., M.A., † Mor Sc, Hoskyns, E. C., M.A., † *Theol*, Munro, A., M.A., † Maths, Naylor, E. W., Mus D, † Music, Perrett, G. B., M.A., † *Hist*, Roderick, H. B., M.D., M.Ch., † Med, Tillyard, E. M. W., M.A., † Engl, Steers, J. A., M.A., † Geog

ST JOHN'S COLLEGE (1511) Master—Sir R. F. Scott, M.A.

Fellows Appleton, E. V., M.A., † Physics and Mineral, * Armitage, B. F., M.A., † Anat, Arundell, D. D., B.A., Mus B, Baker, H. F., Sc D, F.R.S., Prof of Astron, Bartlett, F. C., M.A., † Mor Sc, * Benians, E. A., M.A., † *Hist*, Bennett, G. M., M.A., Blackman, F. F., M.A., F.R.S., Briggs, G. E., M.A., † Botany, Bromwich, T. J. I. A., M.A., Sc D, F.R.S., Prælector in *Mathematics*, Charlesworth, M. P., M.A., *Classics*, Coulton, G. G., M.A., Creed, J. M., M.A., Dean, † *Theol*, Cunningham, E., M.A., Steward, Tutorial Bursar, † *Maths*, Engledow, F. L., M.A., † Agric, Evans, I. L., B.A., Foxwell, H. S., M.A., † Econ, Glover, T. R., M.A., *Classics*, Greaves, W. H. M., B.A., Harke, A., M.A., F.R.S., Hetland, W. E., M.A., Howard, Sir H. F., K.C.I.E., C.S.I., Senior Bursar, Jeffreys, H., M.A., *Maths*, Larmor, Sir Joseph, Hon Sc D, F.R.S., M.P., Prof of *Maths*, Lees, S., M.A., Liveing, G. D., Sc D, F.R.S., President, MacAlister, Sir Donald, Bart, M.A., M.D., Marr, J. E., Sc D, F.R.S., Prof of Geol, Newman, M. H. A., B.A., Palmer, W. G., M.A., † Chem, † Prior, O. H. P., M.A., Prof of French, Rapson, E. J., M.A., Prof of *Sansk*, Raven, E. E., M.A., Chaplain, Rootham, C. B., Mus Doc, Organist, † *Music*, Shore, L. E., O.B.E., M.D., Junior Bursar, † *Physiol*, * Sikes, E. E., M.A., † *Classics*, Stevens, A. J., M.A., Tanner, J. R., Litt D, *Hist*, Wagstaff, J. E. P., M.A., Ward, J. T., M.A.; Webb, R. R., M.A., White, F. P., M.A., *Maths*, Wilson, J. T., M.A., Prof of Anat, Winfield, P. H., LL.D., † Law, * Wordie, J. M., M.A., † Geog, Yule, G. U., M.A.

* Tutor

† Director or Supervisor.

Other Lectrs, etc Brindley, H H, M A, † Biol and Zool, Peake, A H, M A, † Mech Sc, Bennett, H S, B.A., † Engl, Girdlestone, C M, B A, † Mod and Med. Langs, Sherrington, Sir C S, G B E, F R S, *Physic* (Linacre); Woods, H, M A., F R S, † Geol, Previté-Orton, C W, M A, Prælector and Librarian

SIDNEY SUSSEX COLLEGE Founded 1596 Master—* G A Weekes, M A

Fellows Carrell, J A, B A, Research Fellow, Davenport, A H, M A, Bursar, † Mech Sc, † Edwards, G M, M A; Hackforth, R, M A, *Classics*, Prælector, * Knox-Shaw, T, M A, *Maths*, McNeile, A H, M A, D D, Mayall, R H D, M A, *Maths*, Passant, E J, M A, *Hist*, Steward, Pope, Sir W J, K B E, M A, F R S, Prof of Chem, Robson, H C, M A, Smith, B T D, M A., *Theol*, Dean, Thacker, C R A, M A, M D, B Ch, † *Nat Sc*, † Biol and Med, Wilson, C T R, M A, F R S (Reader in Elec Meteorol)

Other Directors of Studies Mills, W H, M A, Jes, Chem, Petherbridge, F R, M A, Agric, Wheatcroft, W H, LL D, Down, Law, Brooks, F T, M A, Bot, Debenham, F, M A, Geog, Lyon, T H, M A, Corp, Archit, Sells, A L., B A, French, Thatcher, W S, M A, Econ, Tillyard, E. M W, M A, Engl, King, W. B R, M A, Geol

TRINITY COLLEGE Founded 1546 Master—Sir Joseph J Thomson, Hon Sc.D, O M, F R S (Prof of Physics)

Fellows Adrian, E D, M A, M D, F R S, Director of Medical Studies, *Nat Sc*, Aston, F W, M A, F R S, Ball, W W R, M A, Bevan, A A, M A, *Oriental Langs*, Boughiey, A H F, M A, Broad, C D, M A, Litt D, *Mor Sc*, Philos of the Sciences (Tarner), Buikill, J C, B A, Burnaby, J, M A, Junr Bursar, Steward, and Prælector, Butler, J R M, O B E, M V O, M A, Lecturer in *Hist*, Buxton, P A, M A, Capstick, J W, M A, O B E, Cornford, F M, M A, *Classics*, de Navarro, J M, B A, Dean, W R, B A, Duff, J D, M A, * Dykes, F J, M A, *Mech Sciences*, Eddington, A S, M A, F R S., Prof of *Astron*, Ellis, C D, Ph D, *Nat Sc*, Fletcher, Sir Walter M, M A, M D, Sc D, K B E, F R S, Fowler, R H, O B E, M A, *Maths*, Frazer, Sir J G, Hon Litt D, F R S, *Anthropology*, Glaisher, J W. L, M A, Sc D, F R S, Glazebrook, Sir Richard T, M A, K C B, F R S, Glauert, H, M A, * Harrison, E, M A, *Classics*, Henry, D C, M A, Herman, R A, M A, Hicks, R D, M A, Hollond, H A, O B E, M A, LL M, Dean of College, *Law* (Reader in Engl Law), Hopkins, F G, M A, F R S, Prof of Bio-Chem, Housman, A E, M A, Prof of Latin, Ingham, A E, B A, Innes, H McL, M A, Senior Bursar; Kirkpatrick, Very Rev A F, M A, D D, Kitson-Clark, G S R, B A, Langley, J. N, M A, Sc D, F R S, Prof of Physiol, * Lapsley, G T, M A, *Hist*, Laurence, R V, M A, *Hist*, Lenox-Conyngham, Sir G P, F R S, Prælector in Geodesy, Littlewood, J E, M A, F R S, *Maths*, McTaggart, J McTaggart Ellis, Litt D, Marshall, T H, M A, Milne, E A, M A, Newall, H F, M A, F R S, Prof of Astro-Physics, Nicholas, T C, M A, *Nat. Sc*, Parry, R St J, D.D, Vice-Master, Pearson, A C, Litt D, Prof of Greek; Pollard, S, M A, *Mathematics*, Postgate, J P, M A, Litt D, Proudman, J, M A, Pye, D R, M A, *Mech Sc*, Ritchie, A D, M A, Robertson, D H, M A, *Econ*, Robertson, D S, M A, *Classics*, Roughton, F J W, B A, Rutherford, Sir Ernest, M A, F R S, Cavendish Prof of Experimental Physics, Sedgwick, R R, M A, Simpson, F A, M A, *Hist*, Stanton, V H, D D, Emeritus Prof of Div, Stewart, H F, D D, Dean of Chapel, Prælector in French, Struckmeyer, O. K, B A, Taylor, G I,

* Tutor.

† Director or Supervisor

‡ Ob. 10. 1. 24

M A, F R S,; Taylor, H. Martyn, M A, F R S., Tennant, F R, D D, *Theol*, Ward, Jas, M A, Sc.D, LL D, Prof of Mental Philos and Logic, Whetham, W C D, M A, F R S., Whitehead, A. N, Sc D, F R S, * Winstanley, D A, M A, *Hist*

Other Lectrs, etc. Abercrombie, L, *Engl Lit.* (Clark), Bartlet, J V, *Eccles. Hist* (Birkbeck); Winfield, P H, LL D, *Law*, Vallette, J, *French*, Winfield, Col M A, *Mil Hist* (Lee Knowles)

TRINITY HALL Founded 1350 Master—H Bond, LL D, *Law*

Fellows · Angus, C F, M A, Librarian, Asst Tutor, *Classics*, Bell, W G, M A, Campbell, Hon I M, D S O, M A, Bursar, † *Agric*, * Chase, G A, M A, Vice-Master, Senior Tutor, Dean, and Prælector, *Div*, Dean, H R., M D, Prof of Pathology, Hayes, R A, M A, *Engin*, Olver, D T, LL M, *Law*, Potts, F A, M A, Asst Tutor, *Nat Sc and Med*, Rendell, W R, M A, Ridcal, E K, M B E, M A, † *Chem and Phys*

SELWYN COLLEGE PUBLIC HOSTEL Founded 1882. Master—J O. F Murray, D D

Fellows * Borradaile, L A, Sc D, *Nat Sc*, † *Med*, * Jordan, W E, M A, Vice-Master, *Classics*, *Hist*, Knott, H C, M A, Prælector and Bursar, *Maths*, * Marsh, F S, M A, Dean, Librarian, *Theol*, Perrett, G B, M A, *Hist*, Williams, W N, M A, LL B., *Classics*, † *Law*, Durrant, P J, B A, *Nat Sc*, Peacey, J R, B A, *Theol*

Other Lectrs, etc Pennell, V C, M A, † *Anat*, Wood, C, Mus D, Music, Wyatt, A J, M A, † *Med and Mod Langs*, Wyatt, T C, M A, † *Engin*, Ziegler, C H, M A, † *Law*

FITZWILLIAM HALL Established 1887 Non-collegiate students. Censor—W F Reddaway, M A Asst Censor—Thatcher, W S, M A

Directors of Studies Attenborough, F L, M A, *Engl*, Barker, J W, Ph D., *Med and Mod Langs*, Ezard, E H, M A, M D., *Med*, The President of Queens', *Nat Sc*, Fox, C, M A, *Mor Sc*, Gaskoin, C J B, M A., *Hist*, Goudy, A P, M A, *Med and Mod Langs*, Hayes, R A, M A, *Mech. Sc*, Heath, S P, M A, *Nat Sc*, Hughes, H M, D D (Lond), *Theol*; Johnson, E W, B D, *Theol*, Joseph, C G, M A, *Geog*, Munsey, S W. U., B A, *Agric*, Reddaway, W F, M A, *Med and Mod Langs*, Oldham, H Y, M A, *Geog*, Purvis, J E, M A, *Chem*, Shepherdson, J F, M A, Mus B., Music, Thatcher, F, M A, Prælector, Chaplain, Bursar, Thatcher, W. S, M A, *Econ*, Vernon Jones, V S, M A, *Classics*, Burkill, J C, B A, *Maths*, Winfield, P H, LL.D, *Law*, Wyatt, A J, M A., *Med. and Mod Langs*.

WOMEN'S COLLEGES recognized by the University.

GIRTON COLLEGE. Founded 1869 Mistress—Miss B S. Phillpotts, O B E, Litt D Dub

Directors of Studies and Resident Lectrs. Janet R Bacon (*Classics*), Hilda M R Murray, M A Dub (*English and Philology*), Vice-Mistress; M Gwladys Jones, M A. N U I (*Hist.*), Frances E Cave-Browne-Cave, M A. Dub (*Maths*), Kathleen T B. Butler (*Med and Mod Langs*); Lizzie S Stebbing (*Moral Sc*), Marjorie Tappan, Ph D Col (*Econ*) Asst Lectrs Mile R Chavannes (*French*), Miss M Taylor (*Maths*). Non-resident M Beatrice Thomas (*Nat Sc*)

Bursar—Eleanor M. Allen, M A. Dub. Librarian and Registrar of the

* Tutor

† Director or Supervisor

Roll—Ethel S Fegan Junior Bursar—Pauline K Leveson, M A Dub
Secy—Mary Clover, M A Dub

NEWNHAM COLLEGE Founded 1871 Principal—Miss J. P. Strachey,
M A Dub

Vice-Principal and Tutor—A B Collier, M A Dub (Old Hall), Tutors
—Mrs Palmer (Peile Hall), M. Steele Smith (Clough Hall), Lectr in Engl.;
E M Chrystal, M A Edin (Sidgwick Hall), Junr Bursar

Other Lectrs L M Swain (Maths), H Richardson (Classics), E R
Saunders (Botany), G. L. Elles, D Sc. Dub (Geol), J M W Slater, D Sc
Lond (Chem and Physics), A M Cooke, M A Manc (Hist), Anna C Paues,
B A Dub, Ph D Upsala (Englsh), L S Stebbing (Moral Sc), M. Tappan
(Econ) Bursar—Mrs Lacy Registrar of the Roll—E M Sharpley

GENERAL INFORMATION

The SENATE, consisting, generally speaking, of all Masters of Arts and Masters of Laws who have retained their membership of the Univ by the fulfilment of prescribed formalities and payment of proper dues, has full power to legislate for the Univ subject to the Univ Statutes, and allows degrees, appoints most of the Univ officers, and elects the 2 members who represent the Univ in the House of Commons

The executive authority of the Univ rests in theory with the Chancellor, but as he is by custom a non-resident officer, it devolves in practice upon his deputy, the Vice-Chancellor, who is appointed every year from among the Heads of Colleges With the Vice-Chancellor is associated a Council of 16 members known as the *Council of the Senate*, which is elected under certain restrictions by (practically) the resident part of the Senate—known as the *Electoral Roll* This Council, besides its executive position, has also an important position in respect of legislation, as no Grace can be put to the Senate unless it has first received the sanction of the Council The Univ appoints *Syndicates* to administer various departments of Univ business and *Special Boards of Studies* to superintend Univ teaching and exams in the various subjects of study The system of teaching as a whole is under the supervision of a *General Board of Studies*, on which all the more important subjects of study are represented All proposals involving the spending of money are submitted by the Council to the *Financial Board*

The COLLEGES are corporate bodies distinct from the Univ. They possess and manage their own property, they are self-governing and elect their own officers, and for nearly all purposes they are independent of Univ control The connexion between them and the Univ, however, is of the most intimate kind The Univ is in part supported by contributions from them, and without any formal agreement to that effect the Univ and the Colls. do as a matter of fact recognize each other's regulations Nearly all the members of the Univ belong to the Colls, and all the members of the Colls belong to the Univ. The work of teaching is divided between the Univ. Profs, Lectrs, etc, and the more numerous body of College Lectrs

MATRICULATION is effected by signing in a register following upon admission as a member of a Coll or as a Non-Collegiate student, the Univ does not require any examn to be passed before Matricn., but an applicant for admission to a Coll must, in general, satisfy its authorities by passing the Coll Entrance examn. or otherwise that his attainments are sufficient to enable him to pass the Univ examns. in due course, and ultimately to proceed to a degree. In effect the *Previous* examn (*v. infra*) takes the place of the Matricn. examn of other Univs.

For admission as a member of a Coll or as a Non-Coll. student application should be made to the proper officer, namely, the Senior Tutor, Christ's, Cai, St John's, the Tutor, Clare, Cath, Corp, Down, Magd, Pet, Sid, one of the Tutors, Trin or Trin H, the Provost or Tutor, King's, the President, Queens', the Bursar, Selwyn, the Master of any of the other Colls, the Censor, Fitzwilliam Hall (Non-Coll students). It is important for those who wish to have rooms in Coll to apply for admission a long time beforehand.

As regards *Colonial and Foreign students*, see Appendix XXIII

ADMISSION TO ADVANCED STANDING I* A graduate with First Class Honours (or equivalent record) † or—provided that he passed, when qualifying for his degree, in English, 2 other languages, one of which is either Latin or Greek, and Maths—with Second Class Honours (or equivalent record) ‡ of an approved university at which he has attended classes not less than 3 years, will be accepted as an *Affiliated Student*, and will then be entitled to (1) be exempt from the Previous Examn, (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of all provisions respecting the standing of candidates for (a) Tripos exams, or for degrees in Medicine, Surgery, or Music, and (b) Degrees other than the ordinary B A Degree or Degrees conferred under the regns for Research Students, (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

II Students at an *Affiliated Local Lectures Centre* (at present Exeter, Leicester, Southport) will be admitted to Nos (2) and (3) of the above privileges provided that they have (a) attended a series of courses of lectures and classes for 6 terms, extending over such period of years as may be approved by the Syndicate, in one of the following groups A, Natural, Physical, and Math Science, B, History, Pol Econ, Mental Science, Literature, Art, (b) attended in each of 2 terms a course of lectures in the other of the groups A, B, (c) satisfied the examiners in the examn held after each course of lectures.

INCORPORATION Students who before admission as members of this Univ have kept terms by *bona fide* residence at Ox or Dub are, subject to certain provisos, allowed terms corresponding to those which they have so kept, a graduate of Ox or Dub who took a degree or degrees after having duly qualified himself therefor not only by having passed the exams, etc., required, but by having kept his terms by residence in his own Univ, may be admitted on certain conditions to the same degree or degrees in Camb.

ADVISER OF INDIAN STUDENTS W S Thatcher, M A, Fitzwilliam Hall, Secy, Intercollegiate Indian Students' Committee

TERMS In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (i.e. within a circle of $2\frac{1}{2}$ miles' radius from Gt St Mary's Church) during three-fourths of the term. Full terms begin Jan 14, Apr 22, Oct 10, 1924, Jan 14, Apr 20, Oct 13, 1925, end—Mar 14, June 13, Dec 8, 1924, Mar 14, June 11, Dec 11, 1925.

DEGREES B A, M A, M Litt, Litt D, M Sc, Sc D; B D, D D, LL B, LL M, LL D, M B. and B Ch, M Ch, M D, Mus B, Mus M, Mus. D, Ph D.

ARRS. The qualifications for the B A are (1) 9 terms' residence, (ii) passing or being exempted from the *Previous* examn, (iii) passing the exams.

* This regulation will, as from Jan 1, 1925, supersede the rules on this subject summarized in Appendix XXIII. Meanwhile both are in force concurrently.

† In U S A, generally speaking, graduation in the first sixth of his class with evidence of exceptional ability in some subject.

‡ In U S A, generally speaking, graduation in the first half of his class.

for the ordinary degree or a Tripos examn , (iv) (for the ordinary degree) a certificate of diligent study

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. *supra*)

(ii.) The *Previous* examn. consists mainly of Latin, one other language, Maths, and English Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk, or Pali for the Latin papers

Exemption from (ii) can be obtained by students who hold certain certifs granted by various Univs of the U K, or by the Scotch Education Dept, or by certain Australasian, S African, and European authorities (v App. XXIII); such exemption is also granted to students entitled to the privileges of *affiliation*

As regards (iii), the ordinary B A is obtained by qualifying in 5 subjects of which 3 at least must be "principal" and 1 at least must be chosen from each of 2 groups The principal subjects are—in Group I Bible, Church Hist, Engl, Gk, Lat, Fr, Ital, Span, Ger, Rus, Geog, Hist I., Hist II, Econ I., Econ II, Moral Philos, Psych, Law I, Law II, Educn, Music, Mily Subjects I, History of Art, in Group II Prelim in Sc, Maths, Physics, Chem, Applied Chem, Metal, Bot, Zool, Physiol, Geol, Geog, Engin I, Engin II, Mily Subjects II There are 4 subsidiary subjects in each group

Students of *Agriculture* and allied subjects may proceed to the ordinary B A by means of certain courses dealing with their scientific and practical sides, and including also prescribed literary training

The Honours B A is obtained by passing in the following Triposes Anthropol, Classical, Economics, English, Geog, Hist, Law, Maths, Mech Sciences, Med and Mod Langs, Mor Sc, Nat Sc, Oriental Langs, Theol

A Bachelor may be admitted *Inceptor* in Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs have elapsed from his *inauguration* (which occurs on Dec 24 following admission to the title of a degree) The *Inceptor* is *created* M A at the end of the following Easter term.

DIVINITY A M A or LL M proceeds to the B D on or after the 11th of June in the 7th year from his *creation*, either (1) by submitting an original dissertation composed by himself in Latin or English on some subject connected with Biblical Criticism, Exegesis, or History, or with the Evidences of Christianity, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects He is required to satisfy the Degree Committee, either by his Dissertation, etc, or otherwise, that he possesses a competent knowledge of Christian Theology A B D of 5 yrs' standing proceeds to the D D by submitting published works or a printed dissertation on the same subjects as those for the B D

LAW. A student who has kept 9 terms and obtained Honours in both parts of the Law Tripos or Honours in some other Tripos and subsequently Honours in either part of the Law Tripos is entitled to proceed to the degree of B A To qualify for the LL B it is necessary to pass the IL B examn after having kept 9 terms and obtained honours in Pt I or Pt II of the Law Tripos, or passed in either Part at the Honours standard, or taken the degree of B A and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland A LL B who has fulfilled certain conditions may be admitted *Inceptor* in Law at the end of 6 yrs from the end of his 1st term, provided that not less than 2 yrs have elapsed

from his *inauguration* A M A who has fulfilled these conditions may also be admitted Inceptor in Law A L L M who makes an original contribution to the advancement of the science or study of Law may be admitted LL D 5 yrs. after *creation*

MEDICINE. The qualifications for the M B and B Ch are (i.) 9 terms' residence; (ii) passing (or exemption from) the *Previous* examn (v. *supra*), (iii) 5 yrs.' Medical study; (iv.) passing in due order 3 examns. and presenting an approved thesis. Admission to the 2nd M B. examn is conditional on proof of diligent attendance on prescribed courses of lectures and practical work Admission to the 3rd M B is conditional on proof of 3 yrs of hospl. practice, 5 yrs.' Medical study, and diligent attendance on prescribed courses of instruction and practical work A M B. in the 9th term after *inauguration* (v. *supra*) and a M A. in the 12th after *creation* may be admitted M D. on submission of a thesis or dissertation, but the M A must have attended lectures and hospl practice and passed examns as required for the M B A B Ch after 3 yrs from inauguration may be admitted Inceptor in Surgery and so by creation to the M Ch. degree A M A. may be admitted also if legally qualified to practise Surgery. A candidate for the M Ch must either pass the examn for the degree or be exempted therefrom in consideration of a contribution to the advancement of the Science or Art of Surgery Addenbrooke's Hospl, containing 192 beds and large out-patient depts, is available for clinics Overseas examns exempting from the 1st M B. 1st examn for B Sc. in Agr of Univ of S Africa (subject for subject), 1st examn for medical degrees in Univ of Adel, Melb, or Syd, or 1st examn in Science in Physics, Chem, and Biol in Univ of Queensland, W Aust, or Tasm

MUSIC. The qualifications for the Mus B include (i.) 9 terms' residence, (ii) passing (or exemption from) the *Previous* examn; (iii) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term The Mus M may be taken after at least 3 yrs have elapsed since *inauguration* (v. *supra*) as Mus B and after passing the prescribed examn.

Persons not less than thirty years of age who have graduated in some Faculty of the Univ and given proofs of distinction in musical composition may be candidates for the Mus D

THE SC D AND LITT. D Any person may be a candidate for either degree who is a M A, LL M., or M Ch of not less than 5 yrs' standing or a M B of not less than 7 These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

DIPLOMAS. In addition to degrees, which are for the most part conferred only on its own members, the Univ grants 5 Diplomas which are open to other persons—in Geog, in Psych Med, in Pub Health, in Med Radiology and Electrology, and in Tropical Med and Hygiene, and 8 which are almost entirely restricted to members of the Univ—in Agric, Anthrop, Class Archaeol, Education, Forestry, Horticulture, Hygiene, and Oriental Languages, the diplomas in Anthrop and Orient Langs being open to non-members in certain exceptional circumstances only Among overseas Mental Hospitals recognized for clinical work for the Dip Psych Med are the Pretoria and the Gladesville (Sydney) *Certificates*, open to members of the Univ only, are conferred in Architecture (open to graduates only) and in certain foreign languages A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures

The Diploma in Hygiene, established in 1921 in response to a communication from the League of Red Cross Societies at Geneva, is intended for *foreigners*

who possess a qualification to practise medicine or surgery which, though not registrable in Great Britain, is recognized by the authorities of their own countries. The full course must extend over 9 months. The requirements are similar to those demanded for the English D P H except that no detailed knowledge of English public health laws is required.

The Univ makes provision for training candidates for the Higher Civil Services, Probationary Vice-Consuls, Indian Civil Service selected candidates, candidates for administrative appointments in Tropical Africa and other branches of the Civil Service and for service under the Govts. of Egypt and the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of ICS Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (G P Moriarty, M A, 1 Mill Lane), and from H. A Roberts, M A, Univ Offices, St Andrew's St, who is Secy to the Board of ICS Studies, Foreign Service Students Committee, Director of Studies for the General Consular Service, and Appointments Board.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit Studies (Secy—Hon I M Campbell, D S O, 11m H) are in direct communication with the War Office and responsible for the nomination of Camb Univ candidates for Regular commissions in H M Forces.

The TRAINING OF TEACHERS is under the management of the Teachers Training *Syndicate*, established in 1878 (Secy—F E E Harvey, M A, address—Warkworth House).

Exams for the Univ's *Certificate of Proficiency*, held in June and Dec, are open to students of certain colleges, and to teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C Fox, M A, Ch1 address—Warkworth House) devote their first 3 yrs to reading for the B A degree, the 4th to professional training. Several scholarships and exhibitions are offered to intending schoolmasters who have been Bursars, Student Teachers, or Pupil Teachers.

There is also a Post-graduate Training Coll for Women. Principal—Miss M H Wood, M A Lond, Litt D Dub, Girton, address—Wollaston Rd.

Candidates are trained for HOLY ORDERS at Ridley Hall, founded in 1879 (Principal—A J Tart, D D Joh), or at the Clergy Training School, Westcott House, founded in 1881 (Principal—Rev Canon B K Cunningham, M A Trin). These and other similar instutns—the Westminster Coll, founded 1844 (Principal—J Skinner, D D Aberd, M A Joh, Presbyterian), Cheshunt Coll, founded 1768 (Resident Tutor—Rev E W Johnson, B D, Undenominational), and St Edmund's House, founded in 1896 (Principal—Rev T F McNulty, M A, Roman Catholic)—are not directly or definitely concerned or connected with the Univ. Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

RESEARCH STUDENTS. Each application for admission must be accompanied by (i) a diploma or other certif of graduation at a Univ, (ii) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study, (iii) a certif. or declaration that the applicant has attained the age of 21 yrs. In exceptional cases requirement No (i) may be dispensed with. The application is not granted unless it appears (a) that the course of research can con-

veniently be pursued within the Univ, and (b) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Special Board of Studies concerned. If he wishes to obtain a degree elsewhere he may, after he has pursued his studies in the Univ for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by the V C. After a course extending over 2 yrs and residence in the Univ for at least 6 terms (Cambridge graduates, 3 terms) after admission as research students, the M Sc or M Litt may be obtained. For the Ph D (v p 14) 3 yrs are ordinarily required, including 2 (in special cases 1) in the Univ. In exceptional cases a course extending over 2 yrs instead of 3 may be accepted.

UNIVERSITY SCHOLARSHIPS open to graduates number about 57, and are worth about £5600 p a. In almost every instance they are open only to persons who have graduated in or are members of this Univ, and in some cases only to those who have kept a certain number of terms. For details see *Students' Handbook* (price 7s 6d, Univ. Press), which also gives details of *Entrance Scholarships*.

APPOINTMENTS (1) The University Appointments Board is concerned with appointments of all kinds (Secy—H A Roberts, M A, Univ Offices, Educational Secy—R. S Goodchild, M A), (2) the Scholastic Agency is concerned with scholastic appointments only (Director—Prof. W J Lewis, office at Mineralogical Museum).

WOMEN From 1872 women were informally admitted to Tripos exams in the Univ, and from 1881 have been formally admitted to the *Previous examn*, the Tripos exams, and certain exams in Med and Music. They were subsequently admitted to the courses and exams for the Diplomas in Agric, Horticulture, Forestry, and Geog, and for the Training of Teachers, and were made eligible for Certifs of Research. Finally in Oct 1921 a Grace admitting them to titular degrees was passed. Women students must reside either at Gtuton or at Newnham or within the precincts of the Univ under the Regulations of one or other of these colleges.

The UNIVERSITY LIBRARY contains over 900,000 vols, including many early printed books, and over 10,000 MSS. and 100,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U K., and a large number of foreign books and periodicals are acquired by purchase. Each Coll. and Pub Hostel has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. There are also many departmental libraries, such as the Class Archæol; the Seeley Memorial (works on Hist and Comp Politics originally collected by John Symonds, Regius Prof. of Mod. Hist. from 1771 to 1807, and added to by his successors); Economics, Law (Squire Law Library), Mod Langs, Moral Sciences, Bendall (Sanskrit, etc), Pathological School, Music collections in the Fitzwilliam Museum and Museum of Archæol., Conchol. and Ornithol. (in Museum of Zool), Robertson Smith (Oriental books), Selwyn Div. School. The Library of the Philos Soc maintains a special relation to all the Scientific Depts. and is very rich in sets of Journals and Scientific Transactions. The Balfour Library contains a large collection of books and periodicals on biological subjects. The annual budget of the Univ. library is about £14,000.

MUSEUMS of Art and Archæology. The Fitzwilliam (Director and Marlay Curator—S. C. Cockerell, M.A.) contains a large and valuable collection of

paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS, autographs and early printed books, the Museum of Class Archæol. (Curator—A. B. Cook, M.A. Qu.) contains a collection of casts illustrating the history of Greek sculpture.

The Museum of Ethnol. and Archæol. (Curator—L. C. G. Clarke, M.A. Trin. H.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collection, and numerous others resulting from scientific expeditions by Cambridge men.

The "Museums of Science" include museums, laboratories, lecture-rooms, class-rooms, and workshops for Agric., Bio-Chem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs, and drawing office), Exper. Physics, Hum. Anat., Ethnol., Forestry, Medicine, Mineralogy (collection very largely increased in recent years and one of the best in the country), Physiol., Psychol., Zool. and Comp. Anat. The Zool. Lab., in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology. The Museum of Zool. includes very complete series of vertebrates and invertebrates, the fishes obtained by Charles Darwin during the voyage of H.M.S. *Beagle*, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry [Supt.—C. F. Cooper, M.A. Trin., Strickland Curator (Birds)—H. Gadow, M.A., F.R.S. (King's); Curator in Entom.—H. Scott, Sc.D. Trin.] The Sedgwick Museum of Geol. includes a fine collection of British and foreign building stones lately added to the Economic section. In addition to the labs of the School of Agric. there are Field Labs. covering about 10 acres, provided by means of Govt. grants for an Inst. for Research in Animal Nutrition; also a Univ. Farm of 200 acres and Plant-breeding Farm of 230 acres. The Botanic Garden has excellent facilities for study. The Molteno Institute for research in Parasitology, and a Low Temperature Station for research in Bio-Chemistry and Bio-Physics were established in 1921.

The OBSERVATORY (Director—Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of $8\frac{1}{2}$ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial $12\frac{1}{2}$ in., a number of smaller instruments, and a good library. The Solar Physics Observatory standing close to the older Obs. has the Newall telescope (25 in.), McClean coelostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are conducted at various places throughout the country and in the Colonies. Copies of the Regns. regarding the Junr. Local and School and Higher School Certificate exams. and the exams. (designed for teachers of not less than 20 yrs. of age) for Certifs. of Proficiency in Religious Knowledge and in English, may be obtained from the Secy. for Local Exams., Syndicate Buildings.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (1.) the Lecture presenting the subject in broad outline, (2.) the Class, held for about an hour before or after the lecture, at which questions are given out by the

lectr., (iii) the short essays written on these questions, and (iv.) the examn. The grades of certifs. are *Terminal*, awarded after a course of ordinarily 12 lectures; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures; the *Vice-Chancellor's*, awarded to students who obtain Terminal or Sessional certifs. satisfying certain conditions and submit a satisfactory essay; and *Affiliation* certif., obtainable only at affiliated centres (Exeter, Leicester, and Southport) under special conditions. A *Travelling Library* is provided by the Syndicate for each course. The work is under the management of the Local Examns. and Lectures Syndicate, and full particulars can be obtained from the Secy. for Lectures, Syndicate Buildings (Rev. D. H. S. Cranage, Litt.D.)

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assocn. They are managed by a Committee appointed by the Syndicate, consisting of 6 resident members of the Senate and 6 representatives nominated by the W. E. A.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1923 (fresh editions every 3 or 4 yrs., with suppts. in intervening years), 15s.; *The Students' Handbook*, annually in July, 7s. 6d.; *Facilities for Graduate Study and Research*, 1922, *Compendium of Univ. Regns.*, 9d.; *The Statutes of the Univ., with some Acts of Parli.*, 7s. 6d.; *Endowments of the Univ. of Camb.*, 1904, *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to 1751, Pts I and II, A-Jux), *Matricns. and Degrees* (a list of all those who have entered the Univ., 1544-1659, 1850-1900, 1901-1912), the *Calendar*, annually (Oct.), 15s.; the *Historical Register*, *Historical Register Supplement*, 1911-20, and *Index to Tripos Lists*, 1748-1910, *University Extension: a Survey of 50 Years*, by the Master of the Temple, 3s. 6d.; *Histories* (a) *Annals of Camb.*, by C. H. Cooper (5 vols.), (b) *The Univ. of Camb.*, by J. B. Mullinger (3 vols. to the later 17th cent.), (c) *College Histories*—Robinson's Series, various authors, Dent's Series—King's, St. John's, Trinity, 2s. each; *Magazines*. The *Camb. Review*, the *Granta*, the *Old Cambridge*, the *New Cambridge*, weekly during term.

EXPENSES V. p. 196

THE YEAR 1922-23

BENEFACTIONS Ministry of Agric., £30,000 for Chair of Animal Pathology, Executors to late Sir Wm. Dunn, additional grant of £45,000 for School of Bio-Chemistry, making £210,000 in all, numerous costly gifts of apparatus from many firms for Dept. of Engineering, Charles Jewell Legacy of £1000 for Agric. Dept., late Miss Sarah Norton, of Boston, U.S.A., \$5000 for founding prize for essay on political history of U.S.A., late Mrs. E. M. Prichard, £1000 for Fitzwilliam Museum, late W. H. R. Rivers, books for Depts. of Psychol. and Ethnol., Lady Sandys, 1200 vols. from library of late Public Orator, for Museum of Classical Archaeology, late Sir J. E. Sandys, "Sandys Fund" for Classical Studentship (£200 p.a.), Sir D. M. Wallace bequest of MSS. dealing with history of foreign policy, Sir A. and Lady Yarrow, foundation of "Eric Yarrow Studentship" in Assyriology (£250 p.a. for 3 yrs.).

NEW POSTS Chair of Animal Path.; Readerships in Bio-chem. and Preventive Med., Lectureships in Crystallography, Econ., and Embryol.

LEGISLATION Conferment on duly qualified women of Titles of Degrees and certain other certificates was provided for. Regulations relating to Degrees in Med. and Surg. were considerably amended. Inauguration of a Contributory Pension Scheme for Assts., Clerks, and Servants in Univ. Depts.

OTHER IMPORTANT EVENTS Promise by Govt of an additional annual grant with probable effect from 1923-24 of £30,000 for superannuation, stipends, library maintenance, extension of extra-mural work, and the women's Colleges, and a non-recurrent grant of £35,000 in respect of superannuation arrears. Courses for Naval Officers were discontinued from March 1923.

RELATIONS WITH OTHER UNIVERSITIES AND COLLEGES Students of Univ of Basle were admitted to the privileges of Affiliation, Univ of Melbourne was affiliated, Egyptian Govt Secondary Educn Certif was recognized, subject to conditions, for exemption from the Previous Examn, regns for exemption from the Previous by Higher School Certifs were revised, the International Union for Pure and Applied Chem visited the Univ. Also v *infra*—Local Lectures

DEATHS In 1922—E E Maxwell, Oct 18, H S Cronin, Oct 26. In 1923—W A Cox, Jan 16, F L Hopkins, Jan 23, J B Peace, Univ Printer, Jan 30, Earl of Plymouth, High Steward, March 6, Dr J G Leatham, March 19, J T Lang, March 23, Sir James Dewar, March 27, Dr John Venn, April 4, Col H J Edwards, June 26, E J Gross, Aug 30, F J H Jenkinson, Univ Librarian, Sept 21.

VISITORS FROM ABROAD WHO GAVE LECTURES Prof Zschokke of Basle (exchange with J T Saunders), Profs Cazamian of the Sorbonne, Aulaid of the Sorbonne, Dyboski of Cracow, Lorentz of Haarlem, Don Ricardo Marin, Dr N M Butler, Pres of Columbia Univ, Señor Dr Ferrer.

NUMBER OF STUDENTS Michaelmas 1923 Undergraduates in residence, 4192. Women students at Gorton, 183, Newnham, 274. Research students, 200. Of Researchers in 1922-23, 24 were from Indian Univs, 11 from Canadian, 7 from Australasian, 2 from S African, 14 from Univs of the U S A, 4 from European, 2 from Japanese, their fields of research were chiefly in Physics (22), Chemistry (15), History (13), Botany (12), English (11), Bio-chemistry (9).

HONORARY DEGREES CONFERRED *DD*—J H B Masterman, N H Tubbs, *LLD*—Rt Hon Stanley Baldwin, Rt Hon Viscount Grey, Baron Plumer, Sir Aston Webb, M C Norman, Sir Michael Sadler, R G Moulton, Albert Mansbridge, *ScD*—H A Lorentz of Haarlem, W H Welch of Johns Hopkins Univ, Niels Bohr of Copenhagen, W D Bancroft of Cornell, E J Cohen of Utrecht, A Haller of the Inst of France, C Moureu of the Collège de France, N Raffaels of Pisa, A Pictet of Geneva, P Swarts of Ghent, *MA*—H R Dean, H Gilbert-Carter, J T MacCurdy, Col M Earle, H F Bird, G. P Bailey, J H Fisher, A Cobham, *MusM*—C J Sharp.

OTHER DEGREES *DD*, 1, *LLD*, 1, *MD*, 24, *ScD* and *LittD*, 5, *MusD*, 1, *PhD*, 22, *BD*, 5, *MA*, 289, *LLM*, 4, *MSc*, 1, *MB*, 45, *BCh*, 50, *BA*, 1391, *LLB*, 98, *MusB*, 8. Diplomas of Titles of Degrees conferred on **WOMEN** *BA*, 122, *MA*, 95, *LLB*, 1, *LLM*, 1.

DIPLOMAS (1921-22) Agric, 52, Anthropol, 1, Class Arch, 3, Forestry, 11, Geog, 15, Hortic, 1, Med Rad and Elec, 24, Psych Med, 5, Pub Health, 30, Trop Med and Hy, 14.

APPOINTMENTS BOARD In the years 1921 and 1922, 722 appointments were obtained on the introduction of the Board. These included lectureships in 8 Univs or Univ Colleges, scientific assistantships in 15 firms, engineering appointments under 20 bodies, Agricultural and Forestry appointments under 12 bodies, other posts in 30 firms and industrial organizations.

LOCAL EXAMNS were held in Dec 1922 at 273 centres, including 31 in India,

20 in Ceylon, 11 in Straits Settlements and Malay States, 3 in China, 12 in Africa, 14 in W Indies, and others in Aden, Central and S America, Gibraltar, Fiji, Mauritius, and Seychelles The number of candidates was 13,063 In July 1923 the exams were held in 306 centres, of which 16 were overseas, and the number of candidates was 9581

LOCAL LECTURES centres numbered 63, the number of courses was 72, Final Examn. Certifs, 187, attendances at lectures and classes were 9770 and 2332 A conference on Univ Extra-mural Teaching was held at Cambridge in July 1923 to celebrate the Jubilee of the movement It was attended by many delegates from various parts of the Empire and from the U S A Dr Parry, Vice-Master of Trinity College, has been reappointed Chairman of the Central Committee on Adult Education as reconstituted by the President of the Board of Education Twelve TUTORIAL CLASSES, not included in above statistics, were conducted

BENEFACTIONS TO WOMEN'S COLLEGES Girton Miss M M Stevenson bequest, £500, Miss S A Turle, £500, Mrs Dunn Gardner in memory of her daughter, £1000, anon, £500 to augment Sargent scholarship, old students, to augment Jex-Blake research fund, £200, Miss E Jackson, £100 in memory of sister, Miss G M Gardner, £729 to found history research scholarship Newnham Ruth Holden memorial fund

UNIVERSITY OF DURHAM

VISITOR—THE BISHOP OF DURHAM

CHANCELLOR—The Rt Hon the EARL OF DURHAM, K G , G C V O ,
D C L

VICE-CHANCELLOR—SIR THEODORE MORISON, K C S I , K C I E ,
M A , D C L

PRO-VICE-CHANCELLORS—Prof. ARTHUR ROBINSON, M A , D C L ,
J S G PEMBERTON, M A , D C L , Prof SIR DAVID
DRUMMOND, C B E , M A , M D , D C L , L L D

PROCTORS—W. N HAWORTH, Ph D., D Sc , Rev H ELLERSHAW, M A

REGISTRAR—H G THEODOSIUS, M A , B è s L

LIBRARIAN—E V STOCKS, M A

AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass exams, and so qualify without coming to England for the B.A, M A , B D , D.D, B C L., D C L, and L Th degrees

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel, Visitor—The Lord Bishop of Barbados, Principal—J. C Wippell, M A , B D , Prof. of Theology—E J Lee, M A , Prof of Classics—W W C Dunlop, M A , Prof of Medicine—W B Clark, M B , C M.

FOURAH BAY COLLEGE, SIERRA LEONE Founded in 1827 by the Church Missionary Society In 1918 the Wesleyan Missionary Society became associated with the C M S in the control of the College. Visitor—The Bishop of Sierra Leone, Principal—F B Heiser, M A , Vice-Principal—
4 Tutors and 2 Lectrs

B. Ladies' College, Cheltenham, Queen's College, Harley St, London, Women's Training Colleges, Darlington and Ripon Women students of 18 yrs. of age who have completed 2 yrs of study and examn at any one of these and passed the First Public Examn in Arts may be allowed to count 2 yrs kept at the College as 1 yr. towards the B.A. degree

C. The following associated Theological Colleges

St. Aidan's; St Augustine's; Burgh, Chichester, Cumbrae; Dorchester, Edinburgh; Highbury, Jamaica; St. John's, Armidale, N.S.W., Lichfield; Lincoln, Moore, Sydney; Queen's, St. John's, Newfoundland, Salisbury; Selwyn, Dunedin; Truro; Warminster; Bishop Wilson School, Isle of Man; Theol. Depts. of King's Coll, London, and of Queen's Coll, Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic Theol Nine terms kept in one of these Colleges, after passing the matricn examn, may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic Theol

GENERAL INFORMATION

The Univ was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852, and more closely, as "The University of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ has no teaching staff apart from those of the Durham Colls, the Coll of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll of Medicine, and Armstrong Coll have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

FACULTIES. At Durham only—Theology and Music, at Durham and Armstrong—Arts and Letters; at Armstrong only—Science and Commerce, at College of Medicine—Medicine

ADMISSION OF STUDENTS FROM OVERSEAS The matricn examns of Sydney and the S African Univs and degrees in Arts of all Univs of the British Empire are accepted

DEGREES B A, M A, B Litt (obsolete), M Litt, D Litt., B Sc, M Sc, D Sc, B D., D D., B C L., D C L., M B., B S, M D, M S, D Ch; B Hy, D Hy., B Mus, D Mus, B Com, M Com., Ph D (v. p. 14)

Diplomas in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health, L D S, Lic Theol

The B A, B Sc, or B Com may be obtained by a 3 yrs.' undergraduate course. For the 1st yr of the B Sc course equivalent study in another Univ., and for the 1st yr of the B Com course 2 yrs' attendance as an evening student, may be accepted. For the B Mus two public examns must be passed.

For the M B and B S at least 1 of the 5 yrs. of Med study must be spent in the Coll at Newcastle. The B.Hy is open to graduates in Med who have spent 1 yr in professional study at Newcastle

The B C L. may be taken by examn. by a B A of 12 terms' standing

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms

The M A is open to a B A of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B A examn or, after passing this examn, has passed the Dipl Theol, B D, B C L, M B or B Sc, degree examn, or who qualifies by passing a special examn

The M.Sc. can be obtained by a B Sc of 2 yrs.' standing by original work or examn

The D Litt or D C L. may be obtained by a B.A (or B.Litt) or B C.I, respectively, of 10 yrs' standing by a sufficient contribution to learning; the D Sc in the 7th year after admission to B Sc, the D Mus by a B Mus of 15 terms' standing

For the M.D a candidate must have had 2 yrs of practice in a hospl or Mily. or Naval service after graduation as M B

For the D Ch a candidate must have devoted 3 yrs (including one at least in the Univ and 6 months at least abroad), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects

For the D.Hy. 2 yrs' experience of Pub. Health administration or research after obtaining the B.Hy. are necessary.

M.D Degree Examn. for Practitioners A person who has been registered by the Gen. Med. Council of the U K. and in the active practice of his pro-

fession for 15 yrs. as a qualified practitioner and is not less than 40 yrs. of age may obtain the M D degree without fulfilling any conditions as to residence on passing an examn. instituted for this purpose by this Univ. and held in March and June Candidates who have not passed previously to their professional examn an examn in Arts are required to pass an examn in Classics and Maths Natives of India are admissible if they bring evidence of having passed within the preceding year an examn. in Latin

Degrees, etc., in Theology The B D examn. is open to candidates of 25 yrs. of age who are graduates in Arts (or Letters) of 2 yrs' standing, if of another Univ. they must have obtained the Dipl. Theol. of Durham The Board of the Faculty may admit also non-graduates who keep three terms at Durham and pass the Dipl examn

The Lic in Theol is open to members of the C of E only Nine terms must be kept at one of the Theol Colls in list C above

The Dipl in Theol is obtainable by graduates of a Univ of the British Empire who keep 3 terms at Durham and pass the Dipl examn Residence for a year at an approved Australian Coll may be accepted in lieu of keeping 3 terms at Durham

The D D. is open to a B D of Durham who is a Master of Arts of 10 yrs' standing on submission of a sufficient contribution to learning

FELS. Matricn, £2 Examns and degrees, £2 to £10 (Examns for D Ch, £20, D Hy, £20, M D for practitioners, 50 gs)

PUBLICATIONS *Univ Calendar* (Sep), 3s 6d, *Durh Univ Gazette*, 4s annually, *Durh Univ Journal* (oldest Univ. Mag in England), once a term, 1s. 6d

THE YEAR 1922-23

HONORARY DEGREES CONFERRED D C L—Sir A A Bowlby, P Corder, D Litt—Dr S Alexander, L Brunschvicg, D N Smith, G F Stout, A H Thompson, M A—R B Morgan, M Sc—H Thomson

TUTORIAL CLASSES (W E A) 26 Also 1 one-year class One tutor supplied to Carlisle under the Liverpool Joint Committee

OTHER DEGREES D D, 3, B D, 5, M D, 14, M S, 1 (woman), M B, B S, 52 (including women—11), B Hy, 1, M A, 45 (women—11), B A, 133 (w—34), M Sc, 22 (w—2), B Sc, 111 (w—13), D Litt, 1, M Litt, 2 (1 woman), B Mus, 4, B Com, 3, Ph D, 1, L Th, 36, Dip Th, 21, L D S, 15, D P H, 1, D Th P T, 52 (w—20)

DURHAM DIVISION

President of Council—J S G PEMBERTON, M A , D C L

Secretary of the Council—C S WALLIS, M A

Secretary of Examinations—J H HOW, M A

Prælector—E G PACE, M A , D D

Treasurer—F W RITSON, M A

Librarian—E V STOCKS, M A

PROFESSORS AND LECTURERS, January 1, 1924

Classics

Cruikshank, A H , M A Ox ,
D Litt (Greek and Class Lit)

Prof

How, J H , M A Ox (Latin) Prof

Frost, P R , M A Camb Lectr

Divinity and Eccl History

Walker, D , M A , D D Ox Prof

Divinity

Pace, E G , M A , D D Reader

Economics and History

Hood, F C , M A Edin Lectr

Education and Psychology

Robinson, A , M A , D C L Prof

Powell, T W , M A
Lectr (Educn)

English Lang and Lit

Ellershaw, H , M A Prof

Colgrave, B , M A Camb Lectr

Hebrew and Oriental Langs

Guillaume, A , M A Ox Prof

History

Whiting, C E , M A , B D , B C L
Reader

History, Ecclesiastical

Wallis, C S , M A Lectr

Liturgiology

Mouldsdales, S R P , M A , B D [Lectr

Mathematics

Heawood, P J , M A Ox Prof.

Burchinal, J L , M A Ox
Lectr .

Military Science

Currie, P J R , O B E , M C
Lectr

Modern Languages

Herdener, C F , M A (B A Lond)
Prof

Lambley, Kathleen, M A , D. es L
Rennes Lectr (French)

Houston, Gertrude C , M A Belf
and Lond Lectr (German)

Vilhet, R Fr Asst

Ozanon, G R Fr Asste

Music

Bridge, J C , M A , D Mus Prof

Philosophy

Jevons, F B , M A Ox , D Litt
Prof

Psychology, v Educn

Theology, v also Div

Coleman, N D , M A Camb
Lectr in T. and Hellen-
istic Greek

Jones, Donald, B D
Lectr in Christian Evi-
dences

Pestle, E P , M A
Tutorial Fellow

University Extension

14 Tutors for 22 classes. Secy to
the Joint Committee Rev
Dr Pace Organizing Secy
of N E District of W E A .
Alderman W N Smith

THE DURHAM COLLEGES

UNIVERSITY Master—H. Ellershaw, M A Censor and Bursar—A A Macfarlane-Grieve, M A Chaplain—E. P Pestle, M A

HATFIELD Master—A. Robinson, M A , D C L. Vice-Master and Chaplain—E. G Pace, M A , D D Censor—C F Herdener, M A Bursar—J L Burchnall, M A.

St CHAD's Principal and Chaplain—S R P Mouldsdale, M A , B D Vice-Principal—C. E. Whiting, M A , B D , B C L Classical Lectr—L A Body, M A Fellow, Tutor, and Bursar—J P Boden, M A

St. JOHN's Principal and Chaplain—C. S Wallis, M A Vice-Principal—P R Frost, M A Asst Chaplain and Bursar—H Y Ganderton, M A Classical Lectr—O W Whaley, M A Elocution Teacher—A D Culley, M A , Mus B

BEDE Principal—D Jones, B D Lectrs—T W Powell, M A. , F Bentley, B A , F E Dann, M A , M Litt , G Turley, B Sc , J Longstaff, M A

St MARY's (for women) Principal—Rachel Donaldson, M A Censor and Tutor—Marjorie Sinclair, M A Tutor—Gertrude C Houston, M A

St. HILD's (for women) Principal—Eleanor C Christopher, M A Lectrs.—Winifred Hindmarsh, M Litt , Jean Templeton, M A , Margaret Dodgson , Gladys Hinde, B A , Gladys Green

NON-COLLEGIATE STUDENTS Censor—N. D. Coleman, M A

HOME STUDENTS (Women) Censor—Kathleen Lamblev, M A , D ès I.

GENERAL INFORMATION

University College was formed at the opening of the Univ , Hatfield was opened (as Bishop Hatfield's Hall) in 1846, St Chad's in 1904, St John's in 1909 Bede College, founded in 1839, was brought into connexion with the Univ in 1919 as a licensed Hall of Residence for Undergraduates St Mary's College, opened in 1899, and St Hild's (established in 1858 as a C. of E Training College) are the residences for women

LIBRARY, 38,000 vols, including rare theological and patristic books MUSEUM with a nearly complete collection of British birds OBSERVATORY with almucantar, etc.

FELLOWSHIPS, 3 Tutorial, £200 to £300, and 1 ordinary, £200, open only to candidates who have kept terms and taken B A in Durham Division.

FEES. Including admission, tuition, exams, board and lodging, subscriptions and gratuities, at Univ College, £120 p a , Hatfield, £100, St Chad's, £100, St. John's, £103 10s, St Mary's, £105, St Hild's, £44 Non-Coll. students pay £24 p.a., Univ fees including club subscriptions, average cost of board and lodging per term £14 to £24.

THE YEAR 1922-23 It was decided to establish a School of Pure Science, and foundation stone of the buildings for it was laid by the Chancellor on May 30, 1923 St Hild's College was affiliated as a Hall of Residence. NEW POSTS. Prof of Educn and Lectr in German STUDENTS, 220, including 66 women ; also unattached students in Theol., 165, and Music, 136.

COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

Chairman of the Court of Governors—W J SANDERSON, J P.

President of the College and Vice-Chairman of the Court of Governors—
SIR DAVID DRUMMOND, C B E, M A, M D, D C L, L L D

Registrar—Prof R HOWDEN, M A, M B., D Sc

Treasurer—C A COCHRANE, M A, D C L, J P

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Anatomy</i>		<i>Hygiene, v Pub Health</i>	
Howden, R, M B, C M	Edin ,	<i>Laryngology & Otology, Clinical</i>	
M A, M B, D Sc	Prof	Whillis, S S, M D, B S	Lectr
Demrs :		Wilson, W F, M B, B S	Lectr.
Green, R B, M B, B S	Lond ,	<i>Materia Medica and Pharma-</i>	
F R C S.		<i>cology</i>	
Whillis, J, M B, B S		Hume, W E, C M G, M A, M D,	
Lectrs in Appl A		B C Camb, F R C P	Prof
Clay, J, K H S, C B E., M B,		Waters J	
B S, F R C S		Demr in M M & Physiol	
Lickley, J D, M D Glas		<i>Medical Jurisprudence</i>	
<i>Bacteriology, v Path Comp</i>		Hardcastle, W, M B	Lond ,
<i>Biology</i>		B Hy, D P H	Durh Lectr
Potter, M C, M A Camb and		<i>Medicine, Principles and</i>	
Durh, Sc D Camb, F L S		<i>Practice of</i>	
(Botany) Prof *		Drummond, Sir D, C B E, M A,	
Meek, A, D Sc, F Z S (Zool)		M D Dub and Durh, D C L,	
	Prof *	LL D Glas	Prof
<i>Chemistry</i>		Oliver, Sir T, M D Glas and	
Haworth, W N, D Sc	Manc ,	Durh, LL D Glas, D Sc.	
Ph D Gott, M Sc	Prof *	Sheff, M A, F R C P	Prof
Briscoe, H V A, D Sc	Lond ,	<i>Medicine, Clinical</i>	
A R C Sc, D I C	Prot	Prof Beattie (v Therap)	Lectr
<i>Children, Diseases of</i>		Prof Hume (v Mat Med)	Lectr
Ogden, O W, M D	Lectr	Drummond, H, M D, B S	Lectr
<i>Dental Science, v infra</i>		Parkin, A, M D, F R C S.	Lectr
<i>Dermatology, Clinical</i>		Hall, G, C M G, M D	Lond
Bolam, R A, O B E, M D, L L D,		B Sc	Lectr
F R C P	Lectr.		
Thompson, S, M B	Asst		

* Also in Armstrong Coll.

Patterson, D W., O B E., M B,
B S Lectr
Hunter, T C, M D, B S Lectr
Nattrass, F J, M D, B S Lectr

Midwifery and Gynaecology

Lyle, R P R, M A, M D Dub
and Durh., B Ch, B A O
Dub Prof
Murray, E F, M D St And,
F R C S

Lectr & Clin Lectr

Lectis in Clinical M

Ruxton, W L, M B, C M
Campbell, L Mabel R, M A,
M B, Ch B

Evers, H, M B, M S, F R C S
Weeks, L McIntyre, M A, M D

Ophthalmology and Clin Ophth

Wardale, J D, M A, M B, B S
Prof
Arkle, J S, M B Asst

Pathology and Clin Path [Prof

McDonald, S, M D Edin, M A
Shaw, A F B, M D Dub, D P H
Lectr
Smith, R P, M B, Ch B, D P H
Demr

Spence, J C, M D
Demr (Path Chem)

Pathology, Comp, and Bacteriology

Hutchens, H J, D S O, D P H
Ox, M A Heath Prof
Clayton, F H A, M D Lectr
Buckell, M A C, M B Lond,
D P H Lectr
Warren, S H, M R C S, L R C P,
D P H Lectr
Wallace, J M, M A Camb,
M R C S, L R C P Lectr
Whitehead, H R, M Sc Leeds,
A I C Chemist.

Pathology, Medical

Prof Hume (v Mat. Med) Demr

Pathology, Surgical [Demr

Drummond, H (v Surg Clin)

Physics

Stroud, H, M A Camb and
Durh, D Sc Lond and Durh,
F Ph S L Prof *
Todd, G W, M A, D Sc Prof *

Physiology, v also Mat Med

Burns, David, M A, D Sc Glas.
Prof
Clark, G A, M D Lectr
Secker, J, B Sc Demr

Psychological Medicine

MacPhail, H D, O B E, M A,
M D Lectr

Public Health

Kerr, H, O B E, M D Edin,
D P H Prof

Surgery

Angus, H B, M B, M S, F R C S
(Lectr in Clin S) Prof
Turner, G G, M B, M S, F R C S
(and in Clin S) Lectr

Clinical Lectrs

Martin, A M, M B, B S
Leech, J W, M D, M S
Clay, J (v Anat)
Willan, R J, M V O, M B, M S,
F R C S
Drummond, Hamilton, M B, B S
Pybus, F C, M B, M S, F R C S
Johnston, H M, B A, M B Belf,
F R C S
Barclay, J H, M D, M S,
F R C S
Hodgson, N, M B, M S
Hindmarsh, T A, M B, M S,
F R C S

Therapeutics

Beattie, T, M D, F R C P Prof.
Arnison, W D, M D, B S
Lectr (Electrotherapy)

Zoology, v Biol.

Dental Science

Lectrs

Richardson, E Y, L D S (D
Anat and Physiol)

* Also in Armstrong Coll.

DURHAM: COLLEGE OF MEDICINE, NEWCASTLE 65

Daniels, J W, L D S (D Mechanics)	Bolam, J, L D S (D. Mat Med and Therap)
Lotunga, C, L D S (D. Metallurgy).	Laing, A M, L D S (D Microscopy and Histology).
Coltman, J, L D S (D Surg and Path).	7 Hon D Surgeons, 18 Hon Asst D Surgeons, 1 Anæsthetist, 1 Hon Radiographer.
Walkinsaw, T R D, L D S (Op. D Surg)	Hutson, W, L D S Prosthetic Tutor.
Cooper, E R, L D S (Orthodontia)	Hutson, S, L D S. Tutorial D Surgeon.
Alderson, W E, M D (D Anæsthetics).	

GENERAL INFORMATION

Instruction in Biology, Chemistry, and Physics is given at Armstrong College; in Clinical Medicine and Surgery, etc., in the Royal Victoria Infirmary and other hospitals.

LIBRARIES, 13,000 vols. MUSEUMS Anat, Hygiene, Mat Med., Path.

SCHOLARSHIPS open to graduate students of the Coll. £25, £40 (Durh. graduates only), £200.

FEES For Tuition, 5-yrs' course for M B, B S, about £200, including Hospl Fees, Practical Midwifery, Instruction in Fevers and Vaccination, and Students' Union, 4-yrs' course for L D S, about £145 Exams for M B, B S, £30, L D S, £12 Degree fees for M B, B S, £12 12s, L D S, £3.

THE YEAR 1922-23

BENEFACTIONS Public subscriptions, £3064.

NEW BUILDINGS The new Bacteriological Laboratories were completed. The new Union Buildings are approaching completion

RESIGNATIONS Dr G J Crawford

STUDENTS Graduate and research, 6 (women—2), undeigrad. full-time, 413 (w—59), part-time, 37 (w—6) Degrees obtained, 65.

ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

President of the College—Rt Hon VISCOUNT GREY OF FALLODON, K G , D C L

Chairman of Council—C. A COCHRANE, M A , D C L.

Vice-Chairman of Council—PERCY CORDER, D C L

Principal—Sir THEODORE MORISON, K C S I., K C I E , C. B E , M. A.
Camb , D C L

Registrar—J Y T GREIG, M A. Glas

Bursar—R N WILKINSON

Librarian—F BRADSHAW, M A Oxon, D.Sc Lond

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Accounting</i>		<i>Art</i>	
Bell, Albert, F C A	Lectr	Hatton, R G , A R C A	Lond ,
Thomas, J R , A C A		M A	
	Asst Lectr		Prof and Dir of School
<i>Agriculture and Rural Economy,</i> v also Forestry		Bullock, R , M A	
Gilchrist, D A , B Sc Edin , M Sc			Master of Painting and
	Prof		Asst Dir
Wheldon, R W , M Sc	Lectr	Bertram, R J S , M A (Design)	
Pawson, H C	Lectr	Reid, J M W , A R C A (Sculp- ture)	
Findlay, D H , B Sc Glas		Weightman, F N , M.A ,	
	Lectr	L R I B A (Archit)	
Adam, D T , B Sc Aberd (Land Surv , etc)	(Land Lectr	Heslop, A (Engraving)	
<i>Agricultural Botany</i>		<i>Botany, v also Agric.</i>	
Redington, G , M Sc Leeds		Potter, M C , M A , Sc D Camb ,	
	Lectr	F L S	Prof *
<i>Agricultural Chemistry</i>		Blackburn, Miss K B , M Sc	
Collins, S H , M Sc		Lond	Lectr
	Adviser & Lectr	Bartlett, A W , M A Camb	
Hall, A A , M Sc Liv and Manc ,		B Sc Lond	Lectr.
Ph D Jena	Lectr	Griffiths, B M , M Sc Birm.	Lectr
<i>Agricultural Zoology</i>		<i>Chemistry, v also Agr</i>	
Gray, R A H , M A , B Sc Aberd ,		Haworth, W N , D Sc Manc ,	
M Sc	Adviser & Lectr	Ph D Gott , M Sc	
Buckle, P , M.Sc Manc	Lectr.	Prof * (Organic C) and Director of Dept	

* Also in Coll. of Med

DURHAM : ARMSTRONG COLLEGE, NEWCASTLE 67

Briscoe, H V. A., D Sc Lond , M Sc , A.R C Sc , D I C	Hall, J., A.M.I.E.E.	Lectr.
Prof * (Inorg and Physi- cal C)	Dixon, J T.	Lectr.
Smythe, J A , D Sc , Ph D Gott Reader and Cochrane	Davies, S J , B Sc. Lond , A M I M E	Lectr
Lectr in <i>Metallurgy</i>	Martin, H E L , B Sc Bris and Lond , A M I C E	Lectr
Madgin, W. M , M Sc	Miller, C V , B Sc Lond	Lectr.
Robinson, P L , M Sc	Baker, H , M Sc Liv	Lectr.
Mallen, Miss C E		
Leitch, Miss G C., M.A , B Sc , Ph D St And		
Allpress, C F , B Sc Birm		
<i>Classics and Ancient History</i>		
Duff, J Wight, M A Aberd , Ox and Durh , D Litt Ox and Durh , LL D Aberd Prof	<i>Engineering, Electrical</i>	
Whittick, G C , B A Ox	Thornton, W M , O B E , D Sc Manc , Liv , and Durh , D Eng Liv , M I E E	Prof
Shiple, Miss C M , M A	Downie, F H , O B E , B Sc Glas , M I E E	Lectr
Waddell, W G , M A Glas and Lond	Dickinson, J. D , M A Ox , B Sc Sheff	Lectr.
<i>Crystallography and Mineralogy</i>	<i>English</i>	
Fletcher, M , M A Camb and Durh , M Sc , F G S	Renwick, W L , M A Glas , B Litt Ox J Cowen Prof	Prof
	Wragge, Sybil, B A Dub , M A	Lectr
<i>Economics and Econ Geog , v also Accounting, Law</i>	Taylor, A B , M A. Ox	Lectr.
Hallsworth, H M , O B E , M A Manc , M Com D Dale Prof		
Jebb, Miss G E M , M A	<i>Forestry</i>	
Ford, P , B Sc Lond	Hopkinson, A D	Lectr
M'Callum, E D , M A Glas "		
	<i>Geography, v Econ.</i>	
<i>Education</i>	<i>Geology, v also Cryst</i>	
Thomson, G H , Ph D Stras , D Sc	Hickling, G , D Sc Manc , M Sc Prof	
Melville, Ellen L , M A Manc , Leeds, and Durh	Woolacott, D , D Sc	Lectr
Brown, V , O B E , B Sc	Mockler, G S , B Sc Liv	Lectr
Bailes, Stella, B Sc	Tomkeieff, Serge	Lectr.
Duff, J F , M A Camb.		
	<i>History, Modern</i>	[Prof
<i>Engin , Mechanical, Marine and Civil, v also Met , Nav Arch</i>	Monson, J L , M A , D Litt Glas Bradshaw, F , M A Ox and Durh , D Sc Lond	Lectr
Hawkes, C J , M Sc , A M I C E , M I N A , M I M E , R N (retd)	Pybus, Miss H J , M A Ox	Lectr.
Morrow, J , M Sc. Manc and Durh , D Eng Liv Reader.	Whitham, Miss E	Lectr.
Hardy, G F , M Sc		
	<i>History, Ancient, v Classics</i>	
	<i>Law</i>	
	Wade, E C S , M A , LL B Camb , Bar -at-Law	Lectr.
	<i>Law, Commercial</i>	
	Fenwick, C. B , M A. Ox , Bar -at- Law	Lectr

* Also in Coll. of Med.

Mathematics

Jessop, C M, M A Camb Prof.
 Caunt, G W, M A Camb and
 Durh, M Sc Reader
 Colborne, D C, M A. Camb Lectr.

*Mathematics, Applied, and Math
Physics*

Havelock, T H, M A Camb,
 D Sc., F R S Prof
 Goldsbrough, G R, D Sc.
 Reader in Dynamical
Astronomy and Lectr
 in Applied M
 Miles, W A, B A. Ox Lectr.

*Metallurgy v Chem**Military Science* [Lectr *

Currie, P J. R, O B E, M C

Mining

Poole, Granville, B Sc, M I Min E,
 F G S Milburn Prof
 Dean, H, M Sc, A R S M Lectr.

Modern Languages

Latham, A G, M A Lond and
 Durh Prof
 MacGregor, Lilius, M A Edin, D
 de l'U Gren (Fr and Ger)
 Lectr
 Vallette, Jean, B ès L Paris (Fr)
 Lectr
 Rees, J. W, B A Oxon (Spanish)
 Lectr

Music

Whittaker, W G, D Mus,
 F R.C.O. Lectr

Naval Architecture

Welch, J J, D Sc, M I C.E.,
 M I N A Prof

Alexander, F. H, M Sc, M I N.A.
 Reader.

Philosophy, Mental and Moral

Ferguson, A S, M A Ox and
 St And Prof
 Alderson, Mrs., M A. Aberd Lectr

Physics

Stroud, H, M A, D Sc Camb
 and Durh, M I E E Prof *
 Todd, G W, M A. Camb, D Sc
 Birm., M.Sc. Prof. (Expl P).
 Bullerwell, J W, M Sc Lectr
 Lunnon, R G, M A., B Sc Lond,
 M Sc. Lectr
 Faid, W, M Sc Lectr.

Religious Knowledge

Fletcher, Rev M, M A Camb
 and Durh, M Sc Lectr
 Fyffe, Rev D, M A Edin Lectr

Zoology, v also Agric [Prof.*

Meek, A, B Sc St And, D Sc
 Peacock, A D, M Sc Lectr
 Jorgensen, Olga, M Sc Lectr
 Harrison, J W H, D Sc. Lectr
 Storow, B, B Sc

Naturalist at Marine Lab
 Meek, Edith M, M Sc
 Bio-Chemist

University Extension

Tutors P Ford and E D M'Cal-
 lum (Econ), W G Whit-
 taker (Music), The Regr
 (Psychology), F W Wade-
 ley, M A, D.Mus (Music)
 Hon Sec to Jt Committee
 S J Davies, B.Sc.

GENERAL INFORMATION

LIBRARY, 37,000 vols. Access to Lit. and Philos. Society's 80,000 vols., and to library of N. of England Inst M.M E. Scientific periodicals subscribed for in co-operation with City Public Library. LABORATORIES with special facilities for research in Engineering and Hydraulics; special branches of Chem., Physics, and Agric.; Marine Biology (Dove Marine Lab., Cullercoats).

* Also in Coll of Med.

DURHAM: ARMSTRONG COLLEGE, NEWCASTLE 69

The Agric. Dept. controls and uses for teaching and research in Agric, Dairying, and Forestry several County and Crown estates.

Complete Courses for the Arts, Science, and Commerce Degrees and the Educn. Diploma of the Univ.

College Diplomas in Agric. (3 yrs.' course), Commerce, Engineering and Naval Archit (3 yrs, reducible in special cases to 2), Mining (2 yrs), Mine Surveying (2 yrs), Fine Art (3 yrs), Architecture (5 yrs)

FELLOWSHIPS, ETC £300, for one year, open to a graduate in Science or Commerce, £120 for travel in foreign mining districts, open to any mining student, £75 10s (two) studentships and £150 Fellowship for graduates from the College, for research, £150, studentship open to graduate in Arts

FEES for Tuition for B A or B Com, £30 p a, B Sc, £35 p a (in Engin., etc, £40), Diploma in Agric, £22 10s, in Teaching, £35, in Engin, etc, £40, in Fine Arts, £16, in Commerce, £5 10s per subject Examns for B A or B Sc, £7, Students' Societies (men), £2 2s, women, £1 5s Registration Annual (Degree students and some others), £2

PUBLICATIONS *Annual Report* (Oct.), *The Northerner*

THE YEAR 1922-23

BENEFACTIONS Additional £10,000, free of death duties, from late Sir Charles Milburn, £12,000 (anon) to form nucleus of a research endowment fund: G E. Henderson, sports pavilion (estimated cost, £11,528), Prof and Mrs H Stroud, £296 to endow H. C Stroud Prize for Physics.

ORGANIZATION. A Dept of Law was established with a view, in the first instance, to preparing students for the Interm and Final Examns. of the Law Society A new library building was commenced, to accommodate 170,000 vols

RETIREMENT. Prof. H Louis (Mining and Met). RESIGNATIONS Prof. R. F. A. Hoernlé (Philos) on apptmt. to Univ of Witwatersrand, Miss Stevenson, R Opie, Mrs Lynn, Miss Laverick, Miss Tesh, R. E K Pemberton, C C. Worters, J. A. Harle; F. W. Flattely Prof. G. H Thomson (Educn) was granted a year's leave of absence on taking up a temporary apptmt. at Columbia Univ, N Y.

STUDENTS. Graduate and research, 12, others full-time, in Arts, 144 (women—110), Pure Science, 232 (w.—58), Engin, 113, Nav Arch, 30; Mining and Met, 29; Agr., 51 (1 woman), Comm., 15 (w.—6), Educn, 87 (w.—32), including 64 reading for post-grad dipl.; Fine Art, 31 (w —28), part-time, 344 (w —106), total, 1076 (w —341).

UNIVERSITY OF LEEDS

VISITOR—H M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K G., G.C.M.G.,
G.C.V.O., LL D.

PRO-CHANCELLOR—E G ARNOLD

VICE-CHANCELLOR—Vacant.

PRO-VICE-CHANCELLOR—Prof. J KAY JAMIESON, M B., C M.

TREASURER—Hon R E BECKETT

REGISTRAR—A E WHEELER, M A

ACCOUNTANT—G R BRENCHE

CLERK TO THE SENATE—F T BAINES, B A

DEAN OF WOMEN STUDENTS—Miss A SILCOX, B Sc Lond

LIBRARIAN—R OFFOR, B A.

PROFESSORS, LECTURERS, ETC, January 1, 1924

Agriculture, v also Vet Hyg
Seton, R. S, B Sc Edin Prof
McMillan, J A, B.Sc Edin Lectr
Robertson, G C A, M A, B Sc
Aberd Lectr
Ruston, A G, B A, B Sc Lond,
D Sc (Farm Econ) Lectr
Preston, H., B Sc
Asst Science Tutor
Senior, G., B Sc
Asst (Farm Costings)
Dallas, J. W, B Sc
Asst (Farm Costings)
Cheveley, S. W, B Sc.
Asst (Farm Costings)
Galt, A S (Hortic)
Lectr & Organizer
Parton, F. W. (Poultry) Lectr
Pilling, G F, B A Camb, N D A
Asst Lectr

Dist Lectrs :
Thompson, H, B Sc Manc, B Sc
Strachan, J, M A, B Sc Aberd,
N.D.A.
Leslie, J C, M A, B Sc. Aberd
Robb, J, B Sc Aberd

Anderson, A W, B Sc Aberd.
McGregor, J, B Sc Glas, N D A,
N D D

9 Instrs and Asst Instrs in Dairy-
ing, Hortic, Poultry, and
Farniery

Agric Botany
Millard, W A, B Sc Bris Lectr
Bennett, F T, B Sc Lond

Burr, S Asst Lectr
Edwards, R E, B Sc Wales Demr

Agric. Chemistry
..... Prof
Hanley, J A., Ph D Mun,
A R C S Lectr
Comber, N M, D Sc Lond,
A R C S, A.I.C Lectr
Saint, S J, B Sc Lond

Asst Lectr.
Milne, G, B Sc. Asst Lectr.

Agric Zoology
Taylor, T. H, M A R U I Lectr.
Hobbins, Maisie, M Sc. Liv.
Asst Lectr

Anatomy

[Prof.]

Jamieson, J. Kay, M B, C M.

Edin (Dean of Med Fac)

Law, F R, M B Lond Demr

Morton, W C, C B E, M A, M D

Edin (H).

Richardson, A, M B Lond,

F R C S (C) (H)

Compston, G C, B A, M R C S

(H).

Tasker, R B, L D S, Hon Demr

in A for Dental Students

*Bio-Chemistry, v. Physiol**Botany*

[Prof]

Priestley, J H, B Sc Lond,

F L S (Dean of Science Fac)

Wager, H, D Sc, F R S (My-

cology) Hon Lectr

Walker, N (Morphol) Lectr

Pearsall, W H, M Sc Manc.

Reader

Ewing, J, M A, D Sc Aberd

Asst Lectr

Scott, Lorna I, B Sc Lond

Asst Lectr

Woffenden, Lettice, M Sc (R)

Pearsall, Mrs. W H, M Sc Manc

Demr

Priestley, Mrs (H)

Grist, Mrs, B Sc Lond (H)

Tupper-Carey, Miss R M

Research Asst

Chemistry, v also Physiol and Tech

Whytlaw-Gray, R. W, O B E,

Ph D. Prof

Lowson, W, B Sc Lond, B Sc,

F I C (Analyt. C) Lectr

Barratt, S, B A Ox.

Asst Lectr. & Demr

Gregory, J C, B Sc, F I C

Asst Lectr & Demr

Burr, May S, D Sc " "

Clark, C H. D, B Sc Lond.

Asst Lectr.

Whitaker, H, M Sc (R)

Hume, J, B Sc, A I C. Demr.

Henderson, T, M.A, B Sc. Demr.

Chemistry, Physical

Dawson, H M, B Sc Lond, Ph D

Ges, D Sc Prof

2 Student Demrs

Chemistry, Organic

Cohen, J B, B Sc. Manc, Ph D.

Mun, F R S Prof.

Dutt, P K, M A Calc, M Sc,

A I C Asst Lectr & Demr

Wightman, W A, B A Demr.

Ellingworth, S, M Sc (R).

Classics

[Prof (Greek)]

Ormerod, H A, M A Ox

Connal, B M, M A Ox

Prof (Latin)

White, H G E, M A Ox (Class

Archæol) Lectr

Bibby, E E, M A Camb, M A

Lectr

*Dental Science, v infra**Economics*

Jones, J H, M A Wales Prof

Shimmin, A N, M A Manc Lectr

Dower, R S, M A Camb (Social

Organization) Lectr

Taylor, J R, M A (Ec Hist)

Lectr

.. (Statistics) Lectr

McCarmick, A (Acctcy) Lectr

. . . Asst Lectr

. . . Tutor

Education

Strong, J, C.B.E, M A Lond,

LL D St And. Prof.

Welpton, W P, B Sc Lond.

Lectr.

Monahan, A J, M A Lectr.

Wynn-Jones, Ll., Ph D (Expl.

E) Lectr

Curtis, S J, B A Lond

Asst M of Method.

Blackburn, Eliz M, M A

M of Method

Robson, Winifred F, B.A

Asst. M of Method.

(C.) = Clinical Lectr (H.) = Hon Demr. (R.) = Research Asst.

Holgate, Jane, B.A. Asst. Lectr.
Newcomb, Edith, M A

Asst. Lectr
Art Teacher
... ..

Hoggett, T J., Mus B Durh.
Music, etc
Wall, Miss E. M. Needlework.

Engineering, Civil and Mech.

David, W. T., M A, Sc D Camb,
D.Sc Wales Prof

Gilchrist, J., B Sc Edin, A M I C E
Lectr.

Naylor, T M, B Sc Manc,
A.M.I.C.E., A M I. Mech E

Asst. Lectr
Swift, H. W., B.A. Camb

Asst Lectr
Colles, C, B Sc Manc Demr

Somerscales, A Demr
Kelly, H C, B Sc Tech Manc

Demr
Richardson, S G Demr

Engineering, Elec.

French, W. E., A M I C E Lectr
Stuart, W. S., B Eng Liv, M Eng.

Asst Lectr & Demr

English Lang and Lit [Prof

Abercrombie, Lascelles, M A Liv
Tolkien, J R R., M A Ox

Reader in E Lang
Cowling, G. H., M A Lectr

Gordon, E V, M A Ox
Asst Lectr.

Childe, W R., M A. Ox
Asst Lectr.

French (and Romance Philol)

Barbier, P, M A Lond
Prof (Dean of Fac)

Gunnell, Doris, M A., D de l'U.
Paris Lectr.

Soltau, R H, M A. Ox Lectr
Murray, Jessie, M A St And

Asst Lectr
Inebnit, J P. Asst Lectr.

Geography

Fawcett, C. B., B.Litt. Ox, M Sc.
Lond. Reader

Williamson, A V., B Sc.
Asst Lectr.

Morgan, M. Kathleen, B Sc. Wales
Asst. Lectr

Geology

Guligan, A, D Sc., F G S Prof
Versey, H C, M Sc Lectr.

Hudson, R G, M Sc Lond,
F G S Asst Lectr

German Lang and Lit

..... Prof
Gough, C E, Ph D Basle Lectr

Caldwell, Mary C, B A
Asst Lectr

Scott, Alice, M A Lond
Asst Lectr

Hebrew

Blomfield, W E, B A, Ph D, at
Rawdon Coll

Histology, v Physiology

History

Grant, A J, M A Camb Prof
Sellers, Maud, D Litt Reader

Thompson, A Hamilton, M A,
D Litt, F S A Reader

Dainton, A H, M A Ox
Asst Lectr

Richardson, G W, B A
Asst Lectr

History, Eccles (Recognized
Teacher)

Underwood, A C, M A, B Litt
B D, at Rawdon Coll

Law

[Prof
Hughes, J D I, M A, B C L Ox

Lectrs.:

Haggen, G L, M A Ox, B C L.
Burrill, H R, LL B. (part-time)

Mathematics

Milne, W P, M A Camb, D Sc
Aberd, M A Prof

Brodetsky, S, M A. Camb, Ph D.
Leip (Applied M) Reader.

Berwick, W E H, M A Camb
Reader.

Gilham, C W, M A Camb, B Sc
Lond Lectr.

Smeal, G., B.Sc. Melb. (Graphics,
etc) Asst Lectr.

Stoneley, R., M A Camb.
Asst. Lectr in Appl. M.

Medicine and Surgery, v *infra*
Metallurgy, v. Tech.

Mining

Ritson, J. A S., D S O. B Sc
Durh. Prof.

Brown, T, M Sc, A M I C E.
Lectr in Mine Surveying
..... Lectr in Met M and
Ore Dressing

Bentham, J Colliery Electrician

Philosophy

Gillespie, C M, M A Ox Prof
Hallett, H F, M A Edin
Lectr.

Physics

Whiddington, R, M A, D Sc
Camb Cavendish Prof

Allen, A O., M A, B Sc Lond,
A R C S (Optics) Lectr
Wagstaff, J. E. P., M A, B Sc
Camb Lectr.

Menzies, A. C, B A Camb
Asst Lectr. & Demr.

Ewles, J, M A Camb
Asst Lectr & Demr

Watson, Clara, M Sc Demr.
Long, F A, B Sc Lond. Demr
2 Asst Demrs

Physiology and Histology

Shanks, W. F, B Sc, M B, Ch.B
Glas Prof.

Winfield, G., M A. Camb Lectr
..... Lectr.

Botwood, C A, M B Demr. in P
Wormall, A, B Sc. (Bio-Chem)

..... Demr
..... Demr.

Flint, E R., M B, Ch.B., F R C S
(H) (C).

Russian Lang and Lit.

..... Prof
Kolm-Balozky, J. Lectr

Russian History and Music
Frere, W H., D D (H).

Spanish Lang. and Lit

..... Prof
Penzol, P. Lectr

Technology, v. *infra*

Veterinary Hygiene

Bowes, H. G, F R C V S. Lectr.

Zoology, v also Agric. [Prof

Garstang, W, M A, D Sc. Ox
Percival, E., B Sc Lectr.

King, Mrs. W. O R, B Sc
Asst Lectr & Demr

Brown, F. J, M Sc Asst Lectr
Simpson, Miss M Asst

Garstang, Sylvia, B.A Ox (R)

Medicine (for subjects of first 2
yrs.—Anat., etc, v *supra*)

Bacteriology, v. Path.

Forensic Med [Prof.

Eurich, F. W, M.D, C M Edin
..... Demr (H)

Gynæcology, v also Obst [Lectr
Oldfield, C, M D Lond, F R C S

..... Demr. (H) (C)

Infectious Diseases

Pearson, A E, M R C S,
L R.C P (C)

Materia Med, v. Therap.

Medicine and Clin. Med.

Griffith, T W., C M G, M D,
C M. Aberd, F R C.P.

..... (C) Prof
Watson, G. W, M D Lond,

F.R.C.P. (C).
Vining, C. W., M D Lond, D P.H

..... (C)
Burrow, J Le F. C, M.B. Edin

..... Demr (H) (C)
MacAdam, W, M A, B Sc, M D.

Ch B, D P H
Med Tutor and Registrar

(C.)=Clinical Lectr. (H.)=Hon. Demr. (R.)=Research Asst

Mental Diseases

Bolton, J S, M.D, D Sc Lond,
F R C P Prof

Obstetrics

..... Prof
Gough, W, B Sc, M B, B S
Lond, F R C S (H) (C)
Brown, R C, M B, B Sc Tutor

Obstetrics and Gynæcology [(C)]

Young, W M, M A, M D Glas
Adamson, Mrs R, M D, B S
Lond (C)
..... (H)

Ophthalmology

Lee, H, B A, M B, B Ch Camb,
F R C S (C) Lectr
Whitehead, A L, M B, B S (C)

Otology

Bain, E W, M B, B S Lond,
F R C S (C) Lectr
Munby, W M, Ch M Edin,
F R C S (C)

Pathology & Bacteriology [Prof]

Stewart, M J, M B, Ch B Glas
McLeod, J W, O B E, M B,
Ch B Glas

Brotherton Prof of B
Wyon, G A, B Sc Lond, M D
Edin Lectr in Path
Ross, G. R, M B, Ch B, D P H.
Lectr in B
Sutherland, P. L, M B Glas,
D Sc.

Lectr (Path of *Industrial Diseases*)

Gordon, J, M.B, Ch.B Demr
Phelon, H V, M B „
Gleave, H H, M B, Ch B „
Hickman, Miss E M, M B, Ch B.
Demr

Child, C H, L D S

Hon Demr in Dental Path
Cattley, R, M B, C M. Edin,
B Sc, D P H. Camb
Hon Fellow.

Veale, R A, B.A. Ox, M D, B S
Lond

Lectr in *Dermatology* (C)
Coupland, J A, M B, B S Lond,
F R C S (C) (H.) in Surg P
..... (H) in Clin P
Stewart, Mrs, M.B, B S Lond
..... (H)
Gruner, O C, M D Lond (H)
... .. (R)

Pharmacology, v *Physiol.*

Pharmacy, v *Therap*

Public Health, v also *Path*

Jervis, J J, M D Edin, D P H
Lond Prof of P H Admn
Jennings, H C, M B, B S
Demr (H)

Surgery and Clin Surg

Moynihan, Sir Berkeley G A,
Bart, K C M G, C B, M S
Lond, F R C S Prof (C)
Coupland, J A, M B, B S Lond,
F R C S (H)
Symons, H W, M B, Ch B
Clin Asst

Moir, P J, M B, Ch B
Clin Asst

Daw, S W, M B, B S Lond,
F R C S Lectr in Orth S (C)
Dobson, J F, M S Lond,
F R C S (C)

Seaton, D, M B, Ch B Manc
(Anæsth) Lectr
Thompson, W, F R C S (C)
Braithwaite, L. R, M B. Manc,
F R C S (C)

Surgery, Operative

Collinson, H, C B, C M G, M B,
M S Lond, F R C S
Lectr (C)

Therapeutics, Pharm, and Mat Med

Maxwell Telling, W H, M D
Lond, F R C P
((C.) in Clin Med) Prof
of Therapeutics

(C.)=Clinical Lectr. (H.)=Hon Demr. (R.)=Research Asst.

Gough, J. H. (P and M M) Demr

Vaccination

Greaves, F W M, M B Manc,
D P H. Instr

Venereal Diseases

Bibby, J. P, M B (C)

Dental Science

Dental Anatomy and Physiology

Mawer, J. W, L D S Lectr & (C.)

Crawford, J. K, L D S (H) (C)

Dental Mechanics

Rippon, C, L D S Lectr

Watt G. V. L D S Tutor

Dental Metallurgy

Lowson, W, B Sc. Lond, B Sc,
F I C Lectr

Dental Radiology

Scargill, H B, M B, B S Lectr

Dental Surgery

Phillips, G A, L D S
Lectr & (C)

Hey, S D, L D S (Operative
D S) Lectr & (C)

The Lectrs. in Dent. Anat. and
Physiology, Dent. Mech, and
Dent. Metallurgy

Lectrs. and (C).

Leigh, P. T, L D S (C)

Marston, W, L D S. (C).

Saville, D., L D S (C)

Thorburn, W. S, L D S (C).

Iles, G D, L D S (C).

Wilkinson, G L, L D S (C).

Harris, W. S, L D S. (C).

3 Hony. Clin Tutors

Dentistry, Clinical

Ross, R. N., B Ch.D., L D S

Demr

Slater, O., L D S. Prosth. Demr

Technology, v also Agr, Engin,
Mining

*Coal, Gas, and Fuel Industries
with Metallurgy*

Cobb, J W, C B E, B Sc Lond,
B Sc, F I C Livesey Prof.

Hodsmen, H J, M B E, M Sc,
F I C (Gas Chem) Lectr.

Houldsworth, H S, M Sc (Re-
fractory Materials)

(R) & Asst Lectr.

Summers, P F, A R S M (Metall)

Asst Lectr

Research Chemists

Wood, J W, M Sc Tech Manc

Parker, A, D Sc

Kerr, H

Monkhouse, A C, Ph D

Howarth, G B, B Sc

Hoffert, W H, M A, B Sc. Ox,
A I C (Benzole Research)

Colour Chemistry and Dyeing

Perkin, A G, F R S, F I C

Prof (Dean of Fac)

Forster, R B, A R C S I, Ph D,
D Sc, F I C

Lectr. & Research Chemist

King, P E (Dyeing) Lectr & (R)

Sewell, W G, M Sc Leeds (Colour
Chem) Asst Lectr & Demr

Cross, E J, B Sc. Demr

..... Demr.

Leather Industries

McCandlish, D, M Sc (Applied
Chem) Prof

Atkin, W R, M Sc Lectr.

Thompson, F. C, M.Sc. Lectr.

Porter, E C, Ph D Demr

Procter, H R, D Sc, F R S,
F I C -

Hon Dir, Internat Re-
search Lab.

Thompson, F C, M Sc. (R)

Textile Industries

Barker, A F, M Sc Prof.

(C) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Hollis, T.	Lectr	University Extension
Yewdall, A	Lectr.	Staff Tutors. Danton, A H,
Pickles, F.	Lectr.	M A Ox, Gibson, G W.,
Fisher, E A, M A, B Sc	Camb,	M A, Shimmis, A N, M A.
A I C.	Lectr.	Manc.; Stewart, D, M A
Farley, W A	Asst Lectr	N U I, Taylor, J R, M A.
Priestley, G.	Asst Lectr	Edin, Walker, N.

AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A) and **RAWDON COLLEGE** (Principal—W. E. Blomfield, B.A., B.D). Students are exempt from attendance at the Univ. in the first of the 3 yrs. of study for the B A. degree.

TECHNICAL COLLEGE, HUDDERSFIELD (Prin—J. F. Hudson, M A, B Sc) Similar exemption for B.A., B Sc. (including Engin), and M.B. and Ch.B.

DIOCESAN TRAINING COLLEGE, YORK. Similar exemption for the B A and B Sc

PRINTING DEPARTMENT OF THE LEEDS CENTRAL TECHNICAL SCHOOL Affiliation granted with a view to the recognition of classes as part of the course for the degree of B Com.

GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

LIBRARY, about 90,000 vols. **MUSEUMS** Anat., Colour Chem. and Dyeing, Materia Med, Path, Textile, Zool. **LABORATORIES** Agricultural Chemistry, Botany, Chemistry, Colour Chem and Dyeing, Engin. (Elec, Civ, Mech.), Geol, Leather Industries (including Procter Internat Research), Maths, Metallurgy, Mining, Path. and Bacteriology, Physics, Physiol, Textile (116 looms), Zool. **OBSERVATORY**, 18½" reflector telescope. **FARM**, 312 acres, including Dairy School. **HOSPITALS** available for Clinics: Infirmary (520 beds) and several others; Asylum (2000 inmates).

FACULTIES. Arts (including Economics and Law), Science, Technology (including Agric, Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries, Medicine (including Dentistry).

DEGREES. Obtainable after a 3 yrs.' course starting from matricn.—B.A., B.Sc. (Honours degree usually 4 years), B Com. (which may be taken with Printing as one of the principal subjects. 3 yrs for degree, or 4 yrs. inclg Diploma of Printing Dept. of Leeds Tech. Sch.), LL.B.; after 5 yrs, M.B, Ch.B., B Ch.D.

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

Honours students of (1) French and (2) German normally spend the 3rd

term of the 2nd year at (1) the Univ. of Caen, (2) a Univ. where the medium of intercourse is German

Honours in Mining or Gas Engin. or Fuel and Metall. involve 1 yr of research or special study after taking the ordinary degree; in Leather Manuf., 4 yrs' study.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' exams. as well as for the Univ. degrees

HIGHER DEGREES. M.A., LL.M., M.D., Ch.M., 1 yr., M.Ed., M.Sc., 2 yrs. (for holders of Hons B.Sc., 1 yr.) after the bachelorship. Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXV) may obtain the M.A., Ph.D. (v. p. 14), or M.Sc. by 2 yrs. of research. Masters of Arts or Science of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS In Education, for graduates, 1 year or 2 yrs. For Teachers of French or German, 2 yrs' course in Methods of Teaching and Phonetics. In Commerce, 1 yr. (postgrad.) In Social Organization and Public Service, 2 yrs. In Geography, 1 yr. or 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr., for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 9 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs' hospital training and 3 mos' lectures. In Dent. Surg., 4 yrs., including 2 in Univ.

Agric. Students are prepared for the National Diploma.

FEES Matricn., £2. Registration, £2. Composition fees or tuition (including Union) Arts, £33 a session, Science, £41, Technology, £45, Agric. (other than degree students, who pay the Technol. fee in the 2nd and 3rd yrs.), winter course, £20, summer course, £10, Law courses, 11 gs. a session. Course for Dipl. in Educn., £42 p.a., Dipl. in Social Organization, £26 p.a. Medicine complete course for M.B., including hosp. practice, £215. Dentistry (including hosp. practice and pupilage) Dipl., £224, Degree, £252. Research fee, £12 a session. Exams. Arts, Science, etc., £6, Medicine (including graduation), £18, Dentistry, B.Ch.D., £16, L.D.S., £14. Graduation fee, £6.

SCHOLARSHIPS, ETC., FOR GRADUATES Fellowships, £200 for one year, renewable, for research in Gas, and £100, renewable, in Col. Chem., £150 for 3 yrs. for Textile Research (preference to graduates in Science or Tech. and to natives or residents of Bradford, but not restricted to members of Leeds Univ.); also £150 for 2 yrs. for research and advanced study, £150 for 2 yrs. for research in English, or History, or Economics, £70 Scholp. for research in Arts Faculty, £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin, £60, Colour Chem. and Dyeing; £20 (three), in Textile Dept.; £25, Forensic Med. and Hygiene.

RESIDENCE. Two hostels for men and 3 for women. Fees, men £70 to

£72, women £56 to £65 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

UNIVERSITY EXTENSION Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

The Annual Yorkshire Summer School of Geography, instituted by the Univ. in co-operation with Sheffield Univ. and Armstrong College and with the help of local authorities, lasts about 3 weeks. Certificates are granted.

In connexion with the Agnc. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS *Calendar* (Sept.), 4s.; Annual Reports of the Univ. and of Tech Depts., *Gryphon*, 4s. annually.

THE YEAR 1922-23

BENEFACTIONS Emer. Prof. C. E. Vaughan legacy, £3500 and books; Clothworkers' Company, £2250; W. R. panel practitioners, £25 annual donation for prize in clin. med. Various valuable gifts of apparatus, furniture, etc.

SPECIAL EVENTS. Visit of H. R. H. The Prince of Wales. The Univ. was also visited officially by the Lord Mayor and City Council, Local Education Authorities, Institute of County and Municipal Engineers, Institute of Journalists, and other corporations.

NEW POSTS Hon. Demr. in Anat. for Dental Students, Reader in Botany, Lectr. in Dental Radiology, Asst. Lectrs. in Geog. and Zool.

CHANGES IN REGULATIONS. Printing was added to the list of principal subjects for the B. Com. degree, and the Printing Dept. of Leeds Central Technical School was affiliated in this connexion. Music was added to the list of subjects for the B. A. degree.

HONORARY DEGREES conferred on Bishop of Ripon, Bruce Richmond, Sir Dugald Clerk, Sir Frank Dyson, Sir Richard Gregory, H. I. Bowring, B. Broadbent, H. McLaren, C. F. Tetley, Earl Beatty, David Lloyd George, B. Horner, Hon. E. F. L. Wood, Sir Chas. Wilson, F. Kidson, Earl of Ronaldshay, A. Smithells, Sir W. Worsley, Major J. W. Dent, Sir E. Allen Brotherton, E. Talbot, J. E. Willans, W. J. Mayo, F. Peaker.

UNIVERSITY EXTENSION WORK Lectures on Unemployment, Contemporary Literature, The Novel, and Natural History of Birds. Tutorial Classes (3 yrs.), 32; summer school for T. C. students, 614 lectures on Agric., Hortic., Vet. Hygiene, Farm. Econ., and Poultry at 203 centres.

OTHER DEGREES. B. A., 75; B. Sc., 154; B. Com., 11; LL. B., 9; M. B., Ch. B., 29; M. A., 14; M. Ed., 6; M. Sc., 5; Ph. D., 4; B. Ch. D., 1.

STUDENTS Full-time, reading for first degree, 1092 (including women—320); graduate, 37 (w.—8); others, 430 (w.—74). Part-time, reading for first degree, 5 (1 woman); graduate and research, 18 (w.—4); others, 419 (w.—77). Evening students, 227.

UNIVERSITY OF LIVERPOOL

VISITOR—H M THE KING.

CHANCELLOR—Rt. Hon EARL OF DERBY, K G , G C B , G C V.O ,
LL D.

PRO-CHANCELLORS—H R RATHBONE, M A , President of the Council,
M P , Emeritus Professor R CATON, C B E , M D , F R C P., LL D

VICE-CHANCELLOR—J GEORGE ADAMI, C B E , M D , F.R S

TREASURER—C SYDNEY JONES, M A , M P.

REGISTRAR—EDWARD CAREY, LL B

BURSAR AND ASSISTANT REGISTRAR—S PRYCE PARRY, M A ,

LIBRARIAN—J SAMPSON, M A , D Litt

PROFESSORS, LECTURERS, ETC.—January 1, 1924

Anatomy
..... Derby Prof
Simpson, G C E , O B E , B A ,
B Sc , M B Assoc Prof
Douglas-Crawford, D , M B , C M
Edin , F R C S (Applied and
Surg A) Independent Lectr
Johnson, W , M D Lond (Ap-
plied and Med A)
Independent Lectr
Broad, W H , M D (Physical
Anthropology) Lectr
Richards, D H
Lectr & Sr Demr
5 Asst Demrs

Anthropology, Social
. . . . Prof

Archæology, v also Palæog and
Associated Institutions
Droop, J P., M.A. Camb. (Classi-
cal A) C. W Jones Prof
Peet, T E., M.A. Ox. (Egyptology)
Brunner Prof

Garstang, J , D Sc , M A , B Litt
Ox , F S A (Methods and
Practice of A) Rankin Prof
Barnard, F P , M A , D Litt Ox ,
F S A (Mediæval A) Reader
Newberry, P E , M A (Egyptian
Art) Reader

Architecture, v also Civ Design,
Engin
Reilly, C. H , O B E , M A Camb ,
F R I B A Roscoe Prof
Budden, L. B , M A , A R I B A
Senr Lectr
Cole, E R F , B Arch , A R I B.A.
(Rendering, etc) Lectr
Marshall, J E , B Arch , M S A ,
M R S I (Building Constrn ,
etc) Lectr
Scott, G Gilbert, R A , F R I B A
(Eccl Archit) Reader.
Miller, B A , A R I B A (Design)
Junnr Lectr
Williams, J W (Constrn)
Junnr Lectr
Allen, C. J. (Modelling)
Recog Teacher

Penn, W. C., R O I. (Drawing
from the Life) Instr

Art of the Theatre

Ervine, St. John
Spl. Lectr, 1923

Astronomy

Plummer, W. E., M.A. Ox,
F.R.A.S. Reader.

Bacteriology, v. Med.

Bio-Chemistry [Johnston Prof
Ramdsen, W., M.A., D.M. Ox
Coope, R., M.D., Ch B., B.Sc.
Lectr

Botany

Thompson, J. McLean, M.A., D.Sc.
Glas., F.L.S.

H. Gaskell Prof

Demrs and Lectrs

Knight, Margery, D.Sc., F.L.S.

Fry, Phyllis, B.Sc., A.R.C.S.

Celtic, v. Welsh

Chemistry, v. also Bio-C

Baly, E. C. C., C.B.E., M.Sc.,
F.R.S. (Inorg. C.) Grant Prof
Heilbron, I. M., Ph.D. Leip., D.Sc.
Glas., F.I.C.

H. Harrison Prof (Org. C.)

Lewis, W. C. McC., M.A. Belf.,
D.Sc., F.Inst.P. (Physical C.)

Brunner Prof

.... (Analyt. C.) Senr. Lectr.

Kay, F. W., M.Sc. Manc., Ph.D.

Berl (Applied Organic C.)

Senr. Lectr.

Lectrs. and Demrs :

Guthrie, F. C., M.A. (Inorg.)

Edwards, D. M., B.Sc. (Inorg.).

Griffith, R. O., M.Sc. (Phys.).

Shutt, W. J., M.Sc. (Phys.).

M'Keown, A., M.Sc. (Phys.).

Doran, W., M.Sc., A.I.C. (Organ.).

Keffler, L. P. G., M.Sc. (Inorg.).

Nance, J. T., M.A. "

Occleshaw, V. J., M.Sc. "

Demrs. :

Rogerson, H., M.Sc. Vict., F.I.C.
(Inorg.).

Kieran, A. J., Ph.D., B.Sc. (Phys.)
McGookin, A., Ph.D., B.Sc. (App
Org.)

Chemistry, Pub. Health

Roberts, W. H., M.Sc. Assoc. Prof.
Jones, E. Gabriel, M.Sc., F.I.C.
Lectr.

Chinese

[Reader
Parker, Prof. E. H., M.A. Manc.

Civic Design

Abercrombie, L. P., M.A.,
A.R.I.B.A. Lever Prof

Special Lectrs

Brodie, J. A., Assoc. Prof.,
M.Eng., Past Pres. Inst. C.E.,
M.I. Mech. E. (Civic Engin.)

Kelly, S. A., F.S.I. (Civic Engin.)

Ward, H. B., M.Sc., M.Eng.

A.M.I.C.E. (Civic Engin.)

Mawson, T. H., (Landscape
Design)

Clarke, J. J., M.A. (Law of Hous-
ing and Town Planning)

Classics

Campbell, A. Y., M.A. Camb.
(Greek) Gladstone Prof

Postgate, P. E., B.A. Camb.

Junr. Lectr

Slater, D. A., M.A. Ox. (Latin)

Prof

Smiley, M. T., M.A. Dub. Lectr.

Chapman, Dorothy, M.A. St. And.
Lectr.

Rees, Frances M., B.A. Wales

Junr. Lectr.

Commerce

Dewsnup, E. R., M.A. Manc.

Chaddock Prof.

Dumbell, S., M.A. Lectr.

Allen, J. Sandeman (Foreign
Trade Procedure, etc.)

Spl. Lectr

Lissenden, G. B. (Indust. Traffic
Management) Spl. Lectr.

Taggart, P., F.S.A. (Accountancy)

Spl. Lectr

Williams, A. (Banking) Spl. Lectr.

Law, v also Civic
 Blease, W Lyon, LL M, Bar -at-
 Law Q Vict Prof.
 Batt, F R, LL.M (Comm L)
 Prof

Findlay, J, M A Ox.
 Warr Mem Lectr
 Jones, J W, M A, LL M (Crimi-
 nal L, etc) Lectr
 Thomas, H H Judge A P., B A,
 LL D Lond (Internat L)
 Prof
 Dowdall, H H. Judge C, K C,
 M A, B C L Ox (Eccles L)
 (H)

Mathematics
 .. Prof (Pure M)
 Proudman, J, M A. Camb, D Sc
 (Applied M) Prof
 Hargreaves, R, M A Camb (Ap-
 plied M) Reader
 Street, R O, M A Camb, M Sc
 (Applied M) Sr Lectr
 Doodson, A T, D Sc (Analysis
 of Observations) (H)
 Wilson, B M, M A Camb M Sc
 Lectr
 Ince, E L, M A Edin, B A.
 Camb and Dub, D Sc Lectr
 Boole-Stott, Alicia (H).
 Grace, S F, M Sc Junr Lectr

Medicine, v. infra

Music
 Polhlt, A. W, Mus D Durh,
 F R C O, L R A M, A R C M
 Lectr

Naval Archit, v Engin

Oceanography
 Johnstone, J, D Sc. Lond Prof
 Daniel, R. J, B Sc Lectr
 Jenkins, J T., B Sc. Lond, D Sc
 Wales, Ph D Kiel (Sea
 Fisheries) (H).
 Scott, A, A L.S. (Econ Ichthyol)
 (H).

Chadwick, H C, A L S (Marine
 Biol) (H)

Palæography and Diplomatics
 Twemlow, J A, B A Ox
 Assoc Prof

Parasitology
 Yorke, W, M D. W Myers Prof
 Southwell, T, A R C Sc, F.Z.S.
 Asst Lectr

*Philology, Comparative, v Ger-
 man*

Philosophy
 Mair, Alex, M A Edin Prof
 Field, G C, M A, B Sc
 Senr Lectr

Physics [L Jones Prof
 Wilberforce, L R, M A Camb
 Rice, J, M A Belf Sr Lectr.

Lectrs and Demrs
 Ablett, R, M Sc
 Edwards, E, B Sc Wales, M A.
 Tor
 Roberts, R W, M Sc
 Marshall, W. L, B Sc Demr.

Physiology
 Macdonald, J. S, M A Camb,
 F R S Holt Prof
 Duffield, F A, M B, Ch B Edin
 Lectr
 Walker, C E, D Sc, M R C.S.,
 L R C.P (Histology) Lectr
 Tozer, Frances M, B Sc Lond.
 (Histology & Cytology)
 Lectr

2 Junr Lectrs and Demrs

Poetry
 De La Mare, W. Lectr

Russian Studies
 Boswell, A B, M A.
 Bowes Prof of R Hist.
 Lang and Lit

.... Asst
 Williams, H W, Ph D Mun (R
 Ethnog) Research Fellow
 Slepchenko, B S Recog Teacher.

Social Studies

Saunders, A M Carr, M A Ox.
Charles Booth Prof
Parry, Eliz A, M A Spl Lectr.

Spanish

Peers, E Allison, M A Camb and
Lond Gilmour Prof
Ruiz, N G Junr Lectr

Vet. Science

Share-Jones, J, D V Sc, M Sc,
F R C V S Dir of Vet Studies
Prof of V Anat

Annett, H E, M B E., M D,
D P H (H)

Elam, C W, D V H, M R C V S
Lectr

Hanna, W, M D Belf, D P H
Camb Lectr

Hughes, H V, B V Sc,
M R C V S, D V H

Isherwood, R, M R C V S Lectr.
Mattinson, A B. O B E,
F R C V S D V S M Vict.

Lectr
Warburton, F T, M R C V S

Clin Lectr
White, C F, M B., Ch B, D P H
Vict. Lectr

Welsh

Davies, J Glyn, M A Senr Lectr
Owen, E, Bar-at-Law, M A,
F S A

(Welsh Mediæval Antiq) Reader

Zoology, v also Entom, Ocean
Dakin, W J, D Sc, F Z S, F L S
Derby Prof

Bisbee, Ruth C, M Sc
Lectr. & Demr.

Burfield, S. T., B A, M Sc
Fordham, Mahalah G C., B Sc
West Aus

Junr Lectr & Demr

Engineering

Watkinson, W H, M Eng,
M I C E, M I. Mech E

Harrison Prof.

Mason, W, D Sc Manc., M I C E,
M I Mech E. (Strength of
Materials) Hughes Prof

Scholes, G E, M B E, M Sc
Manc, M I A E (Thermo-
dynamics) Rankin Prof

Mawson, H, D Sc. (Eng) Lond.,
A R C S, A M I C E,
A.M.I Mech E Sr Lectr

Okill, J, M Eng, M I A E Lectr
Kearnton, W J, M Eng,
A M I N A Lectr

Cole, E B, B Sc Bris Lectr
Smith, G, B Sc Jr Lectr

Civil Engineering

Perrott, S W, M A I Dub,
M I C E Prof

Rimmer, E J, M Eng, Bar-at-
Law (Contracts, etc)

Spl. Lectr.

Whitaker, H A, B Eng Lectr

Design

Clark, J J, M Eng, A M I Mech. E
Lectr & Demr

Hitchens, A P, B Eng,
A M I C E, M I Struct E

Lectr & Demr

Webster, F, M C, M Eng,
A M I C E (also Constr Cold
Storages) Lectr & Demr.

Dock and Harbour Engineering

Wilton, T R, M A Camb,
M I C E Assoc Prof

Electrical Engineering

Marchant, E W, D Sc Lond,
M I E. E Jardine Prof

Teago, F. J, M Sc Durh,
M I E E (Elect Machin-
ery) Lectr

Prescott, J C, M Eng, A M I E E
Waygood, O C., A M I E. E Lectr.

Lectr.

Brookes, R C, B A Camb,
A M I E E Junr. Lectr.

Bennett, J E, M A Camb,
A M I E E Junr Lectr.

Morgan, E H. Demr.

(H.) = Hon. Lectr.

Marine Engineering

Lectrs. : The Harrison Prof of E.,
the Prof of Nav Arch., the
Prof. of Refrig, etc.

Metallurgy

Bannister, C. O, M Eng, A R S M.,
F.I.C (also Lectr in Dental
M) Wortley Prof
Newcombe, J. A, A R S M
Lectr.

Municipal Engineering

Brodie, J A, M Eng, M.I.C.E.,
M I Mech E Assoc Prof

Municipal Electrical Engineering

Dickinson, H, M.I.C.E.,
M I Mech E, M.I.E.E
Hon Lectr

Naval Architecture

Abell, T B, O B E, M Eng,
R C N C (ret), M I N A
A Elder Prof
Wilson, J C M, M Eng, R N C,
A M I N A Lectr & Demr

Railway Engineering

Aspinall, Sir J A F, D Eng,
Past Pres I C E, Past Pres
I Mech E Assoc. Prof

Refrigeration, v also Design

Anderson, J W, M Eng, M.I.C.E.,
M I Mech E Hughes Prof

Medicine (for subjects of first 2
yrs —Anat, etc, v. *supra*)

Bacteriology

Beattie, J M, M.A. N Z, M D,
C M Edin Prof.
Ashcroft, L S, M B, Ch B,
D P H Lectr.
Lewis, F C, M R C S, L R C P.,
(Bact Methods) Lectr
Fitch, A A, M R C S, L R C P
Lectr.

Cytology, v also Physiology

Walker, C E, D Sc, M.R.C.S.,
L.R.C.P. Assoc Prof.

Dermatology

[Lectr.
Leslie-Roberts, H, M D Edin

Diseases of Children

Fordyce, A D, M D. Edin,
F.R.C.P Lectr

Diseases, Infectious

Rundle, C, O B E, M.D Lond,
D P H Lectr.

Diseases, Mental

Reeve, E. F., M B, B S Lond.
Lectr.

Diseases, Specific

Wilson, F. P, M.D, M.Sc Lectr

Forensic Medicine

[Prof
Buchanan, R J M, M D, F R C P.
MacFall, J E W, M D, D P H.
(Toxicol) Lectr.

Hygiene

Hope, E. W, O B E, M D, D Sc
Edin Prof
Mussen, A. A., B A, M D. Dub,
D P H (Practical San) Lectr.
Hanna, W, M A, M D Belf,
D P H (Admn and Vaccn)
Lectr

Laryngology

Permewan, W, M D Lond,
F R C S, D P H Lectr

Mat Med and Pharm

Marsden, P. H, F C S Lectr.

Medicine

Abram, J Hill, M D Lond,
F R C P. Prof & Chn Lectr

Clinical Lectrs.

Abram, J Hill, M D Lond,
F R C P
Buchanan, R J M, M D Vict,
F R C P
Bigland, A. D, B A Camb, M D.
Hay, J, M D, F R C P
Bligh, J Murray, M D
Gullan, A G., M D Lond.,
F.R.C.S
Macalister, C. J, M D. Edin,
F R C P
Johnson, W (v. Anat)

Midwifery and Gynæc

Bell, W Blair, M D, B S Lond.
 Prof and Clin Lectr.
 Hendry, R A, M D, Ch B (Obst
 and Gyn) Lectr
 Wilson, J St G., M B, Ch M
 Demr.

Clin Lectrs

Gemmell, J E, M B, C M Edin
 Ivens, Mary H F, M B, M S
 Lond
 Murray, H Leith, M D Aberd
 Willett, J H, M D

Neuro - Pathology of Mental Diseases

Watson, G A, M B, C M Edin
 (H)

Ophthalmology

Chavasse, F B, M A, M D,
 D O M S Ox. Lectr

Pathology

Glynn, E. E, M.A., M.D., C.M
 Camb, F.R.C.P. Holt Prof
 Evans, W Howel, B Sc, M B,
 Ch B. Lectr
 Junr Lectr
 Pemberton, H S, M B, Ch B
 Demr

Pharmacology, v also Mat Med

Dilling, W J, M B, Ch B Aberd
 Lectr

*Public Health, v. Hyg and Chem**Radiology*

[Lectr
 Holland, C. Thurstan, D.L, Ch.M

Surgery

Parker, R, M B., B.S. Lond,
 F R C S. Prof.
 Kelly, R E., C.B, M D., B Sc.,
 F R C S
 Prof and Clin Lectr.
 Jones, Sir Robert, C.B, K B E,
 Ch.M., D.Sc., F R C S (Or-
 thopædics)
 Lady Jones Lectr.
 Monsarrat, K. W, M B, C M.
 Edin (Operative S)
 Lectr and Clin Lectr.

Kennon, R., M.D., F.R.C.S.
 (Practical S) Lectr.
 Nuttall, H C. W, M D., F R C S.,
 D.P H Demr.

Other Clinical Lectrs

Armour, T R W, M B, C.M.
 Edin, F R C S
 Douglas-Crawford, D, M B, C.M.
 Edin, F R C S (v Anat.).
 Evans, A J, F R C S Edin
 Heaney, F Strong, M A., M.D.
 Dub.
 Jones, T. C. Litler, F.R.C.S.
 Newbolt, G P, C B E, M B Durh.,
 F R C S
 Simpson, G. C. E, B A, M B,
 B C. Camb, B.Sc, F R C S

Tropical Med

Stephens, J W W, B A, M.D.,
 F R S, D P H Camb
 Sir A. Jones Prof
 Thomas, H W, M D, C M,
 Director of Research at
 Manaos (Yellow Fever)
 3 Research Assts

Tropical Diseases of Africa

Blacklock, D B, M D Edin
 D P H. Prof, and Dir of
 Sierra Leone Research Lab
 Maplestone, P A, D S O., M.B.,
 Ch B Melb Asst. Dir.

Tropical Sanitation

Prout, W. T., C M G, M.B., C.M.
 Edin Hon. Lectr.

*Vaccination, v. Hygiene**Dentistry**Dental Surgery*

Gilmour, W. H., M D S, L.D.S.
 (Dir. of D Educn)
 Cohen Prof
 Brown, I W., B A. Belf, L D S.
 Demr.
 Collinge, J S H, L D S Demr.
 Gray, N., L D S. Demr.
 Harvey, F. G., B D.S. Demr.

Anæsthetics

Smith, G. F. R., M B., B.S Lond.,
M D Lectr
Clothier, B., L D S Demr

D Anat., Histol., and Physiol

Woods, J. A., M D S., L D S
Lectr
Guyler, T. W C., B D S. Demr

D. Mechanics

Osborn, L. J., M D S., L D S
Lectr
Newton, A. S., L D S Demr

*D. Metallurgy, v Met**Operative D. Surgery*

Bennette, H. W. P., M D S.,
L D S Lectr
Meeson, A. E., B D S. Demr.
Lyll, G. L., L D S. Demr.

Clin D Surgery

9 Lectrs
Orthodontia
Mountford, E. H., L D S. Lectr
Watkin, H. G., L D S Demr

University Extension

Secy to the Univ Extension
Board
E Hickinbotham, B A

ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL D., *Numismatics*, Milne, J. G., M A.; *Central American Arch*, Gann, T. W. F., M R C S., L R C P.

TIDAL INSTITUTE Established 1919 Administered by a Joint Committee representing the Mersey Docks and Harbour Board and the BIDSTON OBSERVATORY (administered by the same Committee)

ST. AIDAN'S COLLEGE, Birkenhead Principal, Rev R. T. Howard, M A. Affil. for first year of degree course and, in subjects in which instruction is not provided in the Univ., up to half of the entire course for the B A

Recognized Teachers in—*Hellenistic Greek*, Dobson, H. W., M A., *Ecclesiastical Hist*, Wood, T. J., M A.; *Hebrew*, Keith, K. E., M A

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith Recognized Teachers in—*Maths*, Smith, Miss E. M., *English Lit*, Deakin, Miss M. H., M A

MOUNT PLEASANT TRAINING COLLEGE Principal, Miss C. Holcroft, M A. Recognized Teachers in—*Latin*, Sampson, Miss M., M. A.; *English Lit*, Healey, Miss M. J., B A

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool New Laboratories opened 1920 Ward for Tropical Diseases at Royal Infirmary, Liverpool Departments with research laboratories at Manaois and Sierra Leone. For training in the conduct of original research and organization of prophylactic measures Has sent out numerous expeditions to tropical countries Publishes *Memoirs* and *Annals* For staff, v *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene Diploma course, 3 months

PATHOLOGICAL LABORATORY, County Asylum, Rainhill. *Pathologist*, Watson, G. A., M B., C M

GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it

LIBRARY, MUSEUMS, ETC. The library of the Univ contains about 95,000 vols., and includes the Rylands collection of early works on Geog and Astron., over 100 incunabula, and the final sheets of the "Constitutiones" of Clement V., printed at Mainz in 1460. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Departments. **MUSEUMS AND LABORATORIES** Anat, Archæol (including a unique Hittite collection), Archit, Bact, Bio-Chem, Bot, Chem, Physical and Electro-Chem, Electricity (Applied), Embryol and Genetics, Engin (including facilities for aerial motor and propeller testing and other wind experiments), Geol, Hygiene, Laryngology, Materia Medica, Expl Med, Trop Med (including museum, animal houses, and specially warmed glass insectarium, and research labs at Liverpool, Sierra Leone and Manaos), Obst and Gynæc, Oceanog, Ophth, Path, Physics, Physiol and Histol, Surg Path, Tidal Research, Toxicology, Vet Anat and Path, Zool. The Port Erin (Isle of Man) Marine Biol Lab has been transferred to the Univ. by an Act of Tynwald. **HOSPITALS** available for Clinics, 4 general and 6 special, containing 1140 beds, which together constitute the clinical school. The trade of the port ensures frequent importations of infection. Special wards for Trop Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Laboratories for research work at prescribed fees.

FACULTIES Arts (with Schools of Archit, Social Studies, Local History and Records, Russian Studies, Departments of Civic Design, Commerce, and Educn), Science, Medicine (with Schools of Dent Surg, Hygiene, Trop Med, Vet Sc), Law, Engineering

DEGREE COURSES 3 yrs, B A, B Com, B Sc, LL B, 3 or 4 yrs, B.Eng (plus 2 yrs' appr'ship), 5 yrs, B Arch, M B, Ch B, B D S, B V Sc.

The B Com courses include (1) General Business, (2) Banking, Insurance, Accounting, (3) Transport, Railways, Shipping, (4) Consular Service.

The LL B courses prepare for the Bar and solicitors' exams, as well as for the Degree. The B V Sc may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES Ph D, v p 14. (1) *Graduates of Liverpool in Faculty concerned* Obtainable after Bachelorship 1 yr, (after Hons B Sc) M.Sc., 15 mos, M Ch Orth, 2 yrs, M A, M Com, (after ord B.Sc) M Sc., M D, Ch M, M H (Hygiene), M D S, M V Sc, LL M, M Eng. After Mastership 5 yrs, D Litt, D V Sc, LL D. After Mastership or Ph D 5 yrs, D.Sc., D Eng., 10 yrs, after B Arch, on distinguished archit work, M Arch. (2) *Graduates of approved Univs* After Bachelorship and 2 yrs' higher study or research in Liv Univ. M A (1 yr elsewhere), M Com, M Sc, M D, M H., M.V Sc, LL M, M Eng. The M A and M Com are also open under certain conditions, to B Arch and grads in Liv Univ of a Faculty other than Arts. (3) *Non-Graduates*. After 3 yrs' higher study or research in Liv. Univ. M A. (1 yr. elsewhere), M Sc, LL.M., M.Eng.

The M Ch Orth is open to grads., other than Med, of this or approved Univs who are F R C S (Eng, Ed, or I) or Fellows of the American Coll of Surg.

DIPLOMAS Archæol, 1 yr. course; Archit, 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Social Studies, 1 or 2 yrs.; Educn. (for grads), 1 yr; L.D.S., 4 yrs; D.P.H., 1 yr; D.T.M., 3 mos, D.M.R.E., 2 terms, D.V.H., 6 mos, Engin, 2 yrs after Certif.

CERTIFICATES. Archæology, 2 yrs' course, separate Arts subjects, 2 yrs, Architectural Design, 1 yr.; Civic Design, 2 terms, Social Studies, 1 or 2 yrs (qualification for entry lower than for Diploma course), Educn, 1 yr, Engin, 2 or 3 yrs; Univ extension courses, 3 yrs

FEES. For Matricn., £2. Guild of Undergrads, £2.7 6 p a **DEGREE COURSES** B.A. or B.Com. (3 yrs), £90, M.A. or M.Com. (sessional), £5, B.Arch. (5 yrs), £150, B.Sc. (3 yrs.), £105-£120, M.Sc. (sessional), Maths, £5, other subjs, £10, M.B., Ch.B. (5 yrs), £196; M.D. (sessional), £10, Ch.M. (2 yrs), £20, M.H. (2 yrs), £80, M.Ch. Orth. (15 mos), £41, B.D.S. (5 yrs), £237, M.D.S. (1 yr), £20, B.V.Sc. (5 yrs), £175, LL.B. (3 yrs), £50, LL.M. (sessional), £5, B.Eng. (3 or 4 yrs), £144-£192, M.Eng. (Research), £10, Ph.D. (2 yrs), £27, Grads of other Univs and Non-grads., £10 higher for M.A., M.Com., M.Sc., LL.M., Ph.D. Apparatus fee per session, M.Sc., M.Eng., Ph.D. in Chem, £20, other subjects except Maths, £10 **DIPLOMA COURSES.** Archit (5 yrs.), £150, Civ. Des. day, £35, cveng, £15, Educ. (1 yr.), £20; Com. (3 yrs), £90, Soc. Studies (2 yrs), £25, Archæol (1 yr), £10, Conj. Bds of P. & S. (5 yrs), £174, D.P.H. (1 yr), £40, D.T.M. (3 mos), £21, D.M.R.E. (2 terms), £24 5s, L.D.S. Liv, incl. pupilage (4 yrs), £199, M.R.C.V.S. (4 yrs), £120, D.V.H. (6 mos), £21, Eng, £144-£192 **CERTIFICATE COURSES** Archit Des (1 yr), £35, Civ. Des. (2 terms), £10, Soc. Studies (2 yrs), £25, Archæol (2 yrs), £30, Educ (1 yr), £20; Engin (2 or 3 yrs), £96-£144.

EXAMN FEES M.B. and Ch.B., B.V.Sc., B.D.S., £15, B.Arch, £5; other bachelor degrees, £4, Master's degree (examn or on application), M.H., 10 gs, Ch.M., M.V.Sc., M.D.S., £5, others, £3, Doctor's (on application), £10 Diploma examns, L.D.S., £15, Comm, £4, Archæol, £3, Educn, Soc. Studies, Eng, £2, others, £5 or 5 gs. Certif's Examns, Archit, £5, Eng, £6, others, £2 Degree Admission Fees, £5 Dipl. Eng, £3, Certif. Eng, £2, others, £1

SCHOLARSHIPS, ETC., FOR GRADUATES Research Fellowships and Scholarships of the aggregate value of over £6000 are offered annually in all faculties; Garrett International Fellowship for Research in Bact., Path., or Physiol open to members of Univs. and Med. schools in the U.S.A. and of other foreign schools, £100 for 1 yr. with possible extension 2 yrs (applications by May 31); Johnston Colonial Fellowship of same value, for research in Bio-Chem. with teaching, open to members of Colonial Univs. and Med. Schools, not excluding Colonial candidates with British qualifications (applications by May 31); Lloyd's Register Scholps. in Naval Archit., £100 p.a. for 3 yrs. for British subjects, men, not over 23.

RESIDENCE, ETC Two hostels for 83 men (fees, £81), one for about 90 women (fees from £63 to £69) Students' Union Club House cost £20,000

A UNIVERSITY EXTENSION Board is responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct), 2s 6d, *Diary* (Oct), free, *Prospectuses of Faculties and Schools* (July), free, *Students' Handbook* (Oct), free, *Inaugural Lectures; Report of the Senate upon Research.* Issued in 1920, *inter alia*, *School of Tropical Medicine Historical Record*, 1898-1920, 10s. 6d

THE YEAR 1922-23

BENEFACTIONS Prof. Campbell Brown bequest, £30,000 for chair of Indust Chem, fellowships, and scholarships, etc., Sir Wm. Herdman, £20,000 for Geol building (memorial to Lady Herdman), R Thornton bequest, £2500, C Sydney Jones, lease of dwelling house, £100 for Educn library, £30 for purchase of leaf of Gutenberg Bible, Sir J Brunner and Roscoe Brunner, a dwelling house; Mrs Hugh R Rathbone, £1000 for Univ Hall; Messrs J & E Hall, Ltd, refrigerator plant, value £1000, in recognition of work of Prof Wemyss Anderson, Mrs M Isaacson, £500 for scholarship in memory of her father, J Bury, J Rankin, £250 for Dept of Mech Eng In Oct 1923 Wm Prescott, cotton trader, died, leaving £20,000 to the Univ for chair of agric or cognate subject

NEW BUILDING for chemistry (higher study and research) was opened by Lord Haldane, March 3, 1923

NEW DEPARTMENTS OR POSTS, ETC Charles Booth Prof of Social Studies and Prof. of Indust Chem, Hon. Lectrs in Comp Philol, in Math analysis of observations, and in Plant Pathology, Spl Lectrs in Foreign Trade Procedure and Marine Insurance and in Industrial Traffic Campbell Brown fellowships, etc, in Chem, Sir Alfred Dale scholarship in Arts, J Bury scholp in Commerce Mersey Docks and Harbour Board handed over Bidston Observatory to a Joint Committee, free from financial liability on part of Univ This Committee will also administer the Tidal Institute

SPECIAL EVENTS British Assocn annual meeting 1923 held at Liverpool.

LEGISLATION M Com degree established; progress in revision of ordinances, etc, for degrees, diplomas, etc, a common form of words being adopted where possible

VISITORS FROM ABROAD WHO LECTURED Under auspices of Anglo-Batavian Soc, H A. Lorentz of Leiden, of Anglo-American Soc, Nicholas Murray Butler of Columbia Univ, W D. Bancroft of Cornell Univ, Eugène Déprez

HONORARY DEGREES. *D Sc.*—Sir E Rutherford, Niels Bohr, E H. Griffiths, G N Lewis, J C McLennan, E Johannes Schmidt, G Elliot Smith

OTHER DEGREES B A, 105 (including women—69), M A, 21 (women—9), LL B, 3, M B, Ch B, 75 (w—18), M D, 2, M D S, 1; B Sc, 104 (w—37), M Sc, 10 (w—4), D Sc, 1 (w—1), B Eng, 32 (w—1), M Eng, 18, B Com, 15 (w—3), B Arch, 13, B D S, 4, B V Sc, 5, Ph D, 24

RETIREMENTS Profs F S Carey and R H Case (both with title Emeritus Prof), P. Rébora (apptd Prof. in Manchester), Lectrs T H Bickerton, J Lloyd Roberts, H A Ormerod (apptd Prof in Leeds), Mary Lloyd Davies, A Walker.

STUDENTS reading for bachelorship, 1437 (including women—504), for diplomas, etc, 453 (w—48), research or higher degrees, 409 (w.—140), occasional, 88 (w—39)

UNIVERSITY EXTENSION. Lectures and classes in 23 centres. Tutorial Classes, 39 of 3 or 4 sessions (1117 students). Summer School in Spanish held in Spain (37) Vacation course in Anatomy (67). Christmas lectures to juveniles (1600).

UNIVERSITY OF LONDON

VISITOR—H M THE KING IN COUNCIL.

CHANCELLOR—Rt Hon EARL OF ROSEBERY AND MIDLOTHIAN, K G ,
K T , D C L , etc

VICE-CHANCELLOR—H J WARING, M S , M B , B Sc , F R C S

CHAIRMAN OF CONVOCATION—R M WALMSLEY, D Sc , M I E E

PRINCIPAL OFFICER—SIR E COOPER PERRY, M A , M D , F R C P

ACADEMIC REGISTRAR—EDWIN DELLER, LL D

REGISTRAR OF THE COUNCIL FOR EXTERNAL STUDENTS—G F GOOD
CHILD, M A , B Sc

REGISTRAR OF THE UNIVERSITY EXTENSION BOARD—J LEA, M A

FINANCIAL OFFICER and SECRETARY TO THE SENATE—H CLAUGHTON,
C B E , B A

SUPERINTENDENT OF EXAMINATIONS—F J PORT, LL B

GOLDSMITHS' LIBRARIAN—R A RYE

REPRESENTATIVE IN PARLIAMENT—SIR SYDNEY RUSSELL-WELLS, M D

Incorporated Institutions and University Departments

UNIVERSITY COLLEGE, v p 105 SCHOOL OF ARCHITECTURE, v p 110

KING'S COLLEGE, v. p. 112

GOLDSMITHS' COLLEGE, v p 158

INSTITUTE OF HISTORICAL RE-
SEARCH, v p 94

ANIMAL SANATORY INSTITN., v.
p 94

FRANCIS GALTON LABORATORY FOR
NATIONAL EUGENICS, v p 110

COMMERCE DEGREE BUREAU AND
APPOINTMENTS BOARD, v p. 100

Associated Institutions (v. next page)

34 SCHOOLS OF THE UNIVERSITY

25 OTHER INSTITUTIONS HAVING
RECOGNIZED TEACHERS.

PROFESSORS, READERS, LECTURERS, ETC.

Note — University teaching is organized under 3 categories. (1) conducted by the Univ itself, (2) conducted by the several "Schools of the Univ", (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ". For explanation of these terms, see second para of General Information on p 93. The names

of teachers of the several subjects will be found in the subsections indicated by symbols as follows.

UNIVERSITY COLLEGE, p 105 (U) KING'S COLLEGE, p 112 (K)

Schools of the University

IMPERIAL COLLEGE, p. 118 (Im) BEDFORD COLL. FOR WOMEN, p. 134 (BW).
 EAST LONDON COLLEGE, p. 123 (EL). ROYAL HOLLOWAY COLL., p. 136 (Ho).
 BIRKBECK COLLEGE, p 125 (Bk) WESTFIELD COLL., p. 137 (Wf.).
 LONDON SCH. OF ECONOMICS, p 127 (E). THEOLOGICAL SCHOOLS, p 138 (Th).
 S E AGRIC COLL., WYE, p 130 (Ag) MEDICAL SCHOOLS, p 140 (Med).
 LONDON DAY TRAINING COLL., p 131 (Tr).
 SCHOOL OF ORIENTAL STUDIES, p. 132 (O).
 KING'S COLL FOR WOMEN, Laws Faculty, p. 153 (Law).
 HOUSEHOLD AND SOCIAL Other Institutions having recognized
 SCIENCE DEPT., p. 115 (KH). Teachers, p 154 (RI).

Accountancy and Business Methods

(E)

Administration, v Public

Aeronautics (Im, EL)

African Languages (O)

Agriculture (Ag, RI)

Anatomy (U, K, Med)

Anatomy, Morbid (Med)

Anthropology, v also Social A

(U, K)

Arabic (O)

Aramaic (Th)

Archæology (U)

Architecture (U)

Art (Fine Art) (U, Ho, RI)

Art, Industrial (E).

Astronomy (U, Im.).

Astrophysics (Im).

Aviation (Im., EL)

Bacteriology (K, KH, Med)

Banking and Currency (E).

Bibliography (K)

Bio-Chemistry (U, Im, Med).

Biology (Im., KH, Med)

Botany (U, K, Im, EL, Bk, Ag, BW, Ho, Wf, RI).

Celtic (U).

Chemical Engineering (U, Im).

Chemical Technology (Im).

Chemistry (U, K, Im., EL, Bk, Ag, KH, BW, Ho, Med, RI).

Chemistry, Organic (U, K, Im., BW, RI).

Chemistry, Pathological (U, Med)

Chemistry, Physical (K, Im, BW).

Chemistry, Physiological (Med).

Chinese (O)

Classics (U, K, EL, Bk, BW, Ho, Wf, Th, RI)

Commerce and Industry (E, RI).

Coptic (U)

Czecho-Slovak (K).

Danish (U)

Dental Science (Med.).

Dutch (U, BW).

Economics (U, E, Bk, KH).

Economic Geography (U, E).

Economic History (K, E).

Education (K, Tr, RI)

Egyptology (U).

Embryology (U).

Engineering—

Aviation (Im, EL).

Chemical Engineering (U, Im.).

Civil Engineering

(U, K, Im., EL, RI).

Electrical Engineering

(U, K, Im, EL, RI).

Engineering Design (U, Im)

Heating and Ventilating (U)

Mechanical Engineering

(U, K, Im., EL, RI).

Engineering—Contd.

Mining and Power Engineering (Im)
Municipal Engineering (U)
Optical Engineering (Im)
Railway Engineering (U).
Surveying (U, RI)
Waterways, Harbours, and Docks (U).
English (U, K, EL, Bk, E, BW, Ho, Wf.)
Entomology (Im, Ag, Med).
Ethnology (E).
Eugenics (U).
Finance, Public (E).
Forestry (Im.).
French (U, K, EL, Bk, E, BW, Ho, Wf)
Fruit Culture (Ag).
Fuel Technology (Im)
Geography (U, K, EL, E, Bk, BW)
Geology (U, K, Im, EL, Bk., Ag., BW, RI)
German (U, K, EL, Bk, E, BW, Ho)
Greek, Modern, and Byzantine History (K)
Hebrew (U, K, Th, RI)
Historical Research and Sources of English H (v. also p. 94) (K)
History (U, K, EL, Bk, E, O, BW, Ho, Wf, RI)
History and Culture of British Dominions in Asia, with Special Reference to India (O)
History and Records of London (U)
History, Imperial (K)
History and Instns, Modern French (U, E)
History, Central European (K).
History of Medicine (U)
History and Method of Science (U)
Horticulture (Ag)
Household Science (KH)
Hygiene (U, K, KH, Med)
Indian Economics (E)
Italian (U, K, Bk., BW)
Journalism (U, K, BW, E)
Languages, v African, Arabic, etc
Law (Law, Bk, E, O, RI)
Librarianship (U).
Logic, v. Philos.
Mathematics (U, K, Im., EL, Bk. BW, Ho., Wf., RI).

Medicine and Surgery (Med).
Metallurgy (Im, RI).
Meteorology (Im.).
Microscopy (K).
Military Science (U, K).
Mineralogy (U, Im).
Mining (Im).
Music (Ho, RI)
Mycology (Ag).
Norwegian (U)
Oil Technology (Im)
Optical Engineering and Optics (Im).
Oriental Langs, v. also Semitic, Tibetan (O)
Palæography and Econ Hist (K).
Palæontology (Im)
Pedagogy (K, Tr, RI)
Pharmacology (U, K, Med).
Philology, Comparative (U, K)
Philosophy, Psychology, and Logic (U, K, Bk, E, BW, Ho, Th).
Philosophy of Religion (K)
Phonetics (U)
Physics (U, K, Im., EL, Bk, KH, BW, Ho, Med, RI).
Physics, Astronomical (U, Im)
Physiology (U, K, KH, BW, Med., RI)
Polish (K).
Political Economy, v Economics (E)
Political Science (E).
Political Theory (E).
Portuguese (K)
Poultry (Ag)
Protozoology (Med).
Psychology, v Philosophy
Public Administration (E).
Public Health (U, K, Med.)
Refractory Materials and Silicates (Im.).
Romance Philology (K)
Roumanian (K).
Russian (K).
Russian Institutions and Economic (E).
Scandinavian (U).
Semitic Languages (U, Th, RI)
Serbian (K).
Shipping (E).
Slavonic Languages (K).
Social Anthropology (E).
Social Science (E, KH, BW).
Sociology (E).
Spanish (K, EL).

<i>Statistics</i>	(U, E).	<i>Transport</i>	(E).
<i>Surveying</i>	(U, RI).	<i>Veterinary Science</i> (v. also p 94)	
<i>Swedish</i>	(U).		(Ag, RI).
<i>Theology</i>	(K, Th).	<i>Woods and Fibres, Technology of</i>	
<i>Thermodynamics</i>	(U).		(Im)
<i>Tibetan</i>	(U).	<i>Zoology</i>	(U, K, Im, EL, Bk, BW,
<i>Town-planning, v Architecture</i>			Med, RI).

GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning exams or procedure except such as is contained in their own official Regns These can always be obtained on application at the Univ. offices.*]

Central offices—South Kensington, S W 7 Telegraphic address—University, Southkens, London. Telephone—Kensington 7000.

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its exams was restricted to students of certain affiliated Colleges was abolished, except for exams in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate is empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and is required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition may be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine and the School of Oriental Studies have been admitted in this category. The Senate has power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions within a radius of 30 miles, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" exams. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to exams for degrees in all subjects except Medicine, Mining, and Architecture. The exams for Internal and External students are in some cases separate, in others identical, but the statutes require that "the degrees conferred on both classes of students shall represent as far as possible the same standard of knowledge and attainments."

Since the reconstitution of the Univ., its two original colleges, University Coll. in 1905 and King's Coll. in 1908, have been incorporated in it, the Senate, which is the supreme Univ. body, taking over the responsibility for their administration.

LIBRARIES. The Libraries belonging to and connected with the Univ.

contain in the aggregate about half a million volumes, distributed over every branch of knowledge. The Univ. Library in the Central Building, S. Kensington, contains about 100,000 volumes and pamphlets. It provides well-equipped special collections to promote research work and also serves as a lending library from which students can borrow expensive works for home study. It includes the Goldsmiths' Library of Economic Literature (45,000 vols.), which is restricted to purposes of research and reference. The British Library of Political Science at the London School of Economics has 160,000 vols. There are, in addition, large departmental libraries in the several Colleges and various collections of books on special subjects, too numerous for mention. Access can also be obtained to the library of the British Museum, the largest in the world, with 2½ million printed books, the Record Office, and numerous other collections. Full particulars are given in *The Libraries of London: a Guide for Students* (v *infra*—Publications).

MUSEUMS Among the many Museums which, in addition to those belonging to the Schools and Institns of the Univ., are accessible to students in London are the British Museum (Antiq and Nat Hist); Horniman (Anthrop and Zool); London, Parkes (Sanitary Science); Practical Geol., Roy. Archit Soc's, Roy Coll. of Surgeons', Science, S Kensington (Mech., Nav, and Struct Engin, Phys, Maths, Chem, Physiol, Geol, and Biol); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit and Sculpture, etc.).

LABORATORIES The most important are mentioned in the sub-sections relating to the several colleges. The following are not attached to any college.

The Brown Animal Sanatory Institutions, 149 Wandsworth Rd, Vauxhall, S W 8. Superintendent—F W Twort, M R C S, L R C P. Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries, any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients are treated. Clin students may be admitted to the Vet Depts, and Research students are received in the Lab.

The Institute of Historical Research, Malet St, W C 1, is the University Laboratory of History, devoted exclusively to post-graduate and research work. It is situated close to the British Museum, and consists of a systematically planned series of seminar libraries, provided with the books containing or describing the main sources of mediæval and modern history (especially those whose manuscript originals are in the Record Office and other London Archives). It is open not only to every professor, reader, or other teacher of history in the Univ, and his research students, but to historians, archivists, and teachers and research students from other Univs, approved by he Committee. *Chairman of Committee*, A F Pollard, M A, Litt D, F B A., Prof of Engl Hist., *Secretary and Librarian*, H. W. Meikle, M.A., D.Litt., Advisor to External Research Students in History.

FACULTIES Theology, Arts, Laws, Music, Medicine, Science, Engineering, Economics and Political Science.

Standing Committees of the Senate The more important are—The Academic Council, the Council for External Students, the Board to Promote the Extension of Univ. Teaching, the Matricn Board, the Establ and Genl. Purposes, Finance, Library, and Scholarships Committees. There are 26 other Committees besides the 42 Boards of Studies.

TERMS for Univ and Inter-collegiate courses, 1923-24 Oct. 4-Dec 19,
Jan 17-March 26, April 24-June 24

DEGREES B D, D D.; B.A, M A, D Lit; LL.B, LL D; B Mus, D Mus, M B, B S, M D, M S; B D S; B Sc, M Sc, D Sc, B Com, M.Com, Ph D (in Faculties of Theol, Arts, Science, Engin, and Econ)

The B Sc and D Sc are granted in the Faculties of Science (including Pure Sc, Agric, Hortic, Vet Sc, and, for External students, Estate Management, and, for Internal students, Household and Social Science—B Sc only), Engineering, and Economics, the M Sc in Science (including Agric, Vet Sc, and, for Internal students, Hortic and Household and Social Science), and, for Internal students, Engineering and Economics

ADMISSION. The Univ. holds 3 times a year in London and twice a year in certain Provincial centres a Matricn. examn open to all persons of 16 yrs. of age and upwards The examn. can also be held by special arrangement in any of the British Colonies or Dominions Candidates are required to pass on one and the same occasion in 5 subjects English, Maths, Latin or Greek or a scientific subject, 2 other subjects of which one must, if neither Latin nor Greek is chosen for 3rd subject, be a language. The General School examn (v p. 101), if passed in a combination required for Matricn, is equivalent to the Matricn examn, and several other examns are also accepted on conditions as exempting from it, namely, those numbered 2, 6, 7, 8(a), 8(b), 9, 10, 12, 19, in Appendix xx, and Matricn examns of the Univs of Adelaide, Melb, and W Aust

STUDENTS FROM OTHER UNIVERSITIES—The graduates of any of the Univs. of the United Kingdom and of some overseas Univs * can also claim exemption Other students of 19 yrs of age and upwards who present certificates of Matricn in Colonial Univs or Indian or foreign certifs from educational authorities indicating an education equivalent in their own country to that required in England for the Matricn examn may apply for *examination under Statute 116* (in lieu of taking the Matricn examn) with special reference to the line of study they propose to follow This examn, which it has been the practice to hold four times a year, is held in London only Students who do not propose to proceed to a degree are not required to pass any Univ. examn, but must submit evidence that they are sufficiently advanced in their studies

PERSONS OVER 25 YEARS OF AGE who in virtue of professional qualifications or otherwise are specially qualified to proceed to a Degree course may apply for examn under Statute 116 See the preceding paragraph

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns, and approximating (except in Med, Dental Surgery, and Vet Sc) to 3 yrs in all Copies of all Regns. may be obtained gratis and post free from the External Registrar.

EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India only the examns in the Faculty of Theol. are thus

* Namely the following In Canada—Alb, Dal, King's, McG, McM (B A. only), Manit, Montreal, Queen's, Tor., Vict, Australasia—Adel, Melb. Qld, Syd, Tas, W A (Arts, Sc, Agr., Eng), N Z; S Africa—Cape, Cape Town, S Afr, Stell, India—Aligarh, All, Benares, Bom. (L M. and S. also recognized), Calc., Dacca, Mad., Mys., Panj, Rang, Hong-Kong.

held, but the Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 70 Colonial centres. In Ceylon the Univ. examns in Science and Arts have also been held under special arrangement; in this latter case with certain modifications of the Regns, such as have made them suitable for the special needs of the Colony in question, with the result that the Ceylon Govt now awards its scholarships upon the results of these Univ examns

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first Degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Intern. course generally extends over 1 yr. As a general rule, Honours may be taken at the Final examns. A course of study extending over not more than 1 yr taken in another Univ approved for the purpose subsequently to a student's passing the Intern. may be accepted subject to regns in lieu of a course taken in this Univ.

Any person who has passed the Intern. examn as an *External* student may be allowed to take the final examn for the first degree after having attended for 2 years as an Internal student an approved course of study for it, but the degree will not be conferred until a further year's course of approved study has been pursued.

ARTS In both Intern and Final (Pass) examns 2 langs must be taken, including either Latin with Rom Hist, or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Sanskrit, or Classical Chinese. The Honours subjects for the Final examn. are Archæol., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, also Celtic for External students, and, for Internal students, Greek, Latin, Dutch, Scandinavian Langs, Anthropology, Sociology.

The B.A. course in Archit. extends over 5 yrs, but graduates of approved Univs may be exempted from such part of the earlier years' courses of study and examns as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., and, for Internal students only, in Comp. Philol. and Psychol. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Honours at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only (except as regards students excused under Statutes 113 and 129—v. p. 99), and is conferred for original work, minimum age—30, or 5 yrs after passing Ph.D. or M.A. examn.

Diplomas Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students), Fine Art (3 yrs), Dramatic Art (2 yrs); Slavonic studies (2 yrs.), History (4 yrs part-time or 1 yr full-time); History of Art (4 yrs. part-time); Journalism (2 yrs), Literature (4 yrs. part-time or 1 yr full-time); Town Planning and Civic Archit. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms), Academic

Dip in Geog. (180 hours), External Dip in Geog; Sociol, etc. (v. *infra*, Econ), Librarianship (2 yrs. for day students, 3-5 yrs for evening students); Academic Dip in Psychology; Academic Dip in Theology.

SCIENCE For the Intern examn Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (Pass) examn any 3 of the following may be selected. Pure Maths, App Maths, Astron, Physics, Chem, Geol, Bot, Zool, Physiol, Psych, Anthropol, Milit Sc, Logic and Method (Ext students), Statistics (Int students). An Honours student selects 1 principal and (except in case of candidate for Honours in Human Anatomy and Morphology or in Maths) 1 subsidiary subject. Internal students may take the B Sc "by research" (v p 99). For the M Sc. for Internal students a thesis is required except in Maths.

For the Degree in Agric the Intern examn includes Chem, Bot, Zool, and 1 selected subject, the Final—Agric, Agric Chem, Agric Bot, and 2 selected. For the Degree in Hortic the Intern subjects are Chem, Bot, Zool, Physics, Geol, and Surveying, for the Final, Practice of Hortic, Book-keeping, Principles of Hortic, and Entom. For the Degree in Vet Sc there are 4 exams to be taken in their proper order. Prelim (Inorg Chem and Phys), Intern Pt I (Org and Applied Chem, Genl Biol, and Vet Anat), Pt II (Vet Physiol), and Final (Vet Pathol and Vet Hyg). There is no Doctorate in Agric or in Vet Sc, Bachelors of Science (Agric or Vet Sc) being held to be eligible for the ordinary D Sc. For the Degree in Household and Social Science there are 3 exams. 1st Intern (Phys, Inorg Chem, Biol, and Social and Econ Hist), 2nd (Chem—Org and Phys, Gen and Econ Biol, Principles of Econ), and Final (App Chem, Physiol and Bio-Chem, Hygiene, and Bacteriology). For the Degree in Estate Management—B Sc (Est Man)—there are 2 exams, Intern and Final. Intern Pt I—Surveying, Econ, and Agric or Town Planning, Pt II—Accounting and Land Law, (Pts I and II may be taken separately). Final Pt I—Land and Buildings Valuation, Taxation and Tithe, Land Law, Pt II—Building Construction, and Agric or Town Planning, and two of—Forestry, Urban Sanitation, Munic and Local Govt Law, (Pts. I and II may be taken separately).

THEOLOGY The Intern course is in Bibl Langs, Greek, Latin, Psych, and Philos, the Final in Old Test, New Test, Bibl and Hist Theol, Church Hist, Philos Introdn to Theol, and a selected subject. The Honours examn is distinct from the Pass, and may be taken 1 yr after graduation in Div, the subjects are Hebrew and Aramaic, including Syriac, Greek NT and Apocrypha, Church Hist, Bibl and Hist Theol, Study of Religion. Candidates for the D D degree must have taken Honours in Theol in this Univ.

LAWS The subjects of the Intern course are Rom Law, Engl Const Law and its Hist, Jurispr, and Crim Law and Crim Procedure, or Indian Penal Code and Crim Procedure. Candidates for the LL D degree must have taken Honours at the LL B examn or subsequently unless specially exempted.

MEDICINE. The course extends normally over 5½ yrs. In the first yr. courses in Inorg Chem, Phys., and Genl. Biol in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org Chem, incl Bio-Chem (the only subject at Pt I. of the 2nd examn), Hum. Anat and Embryol., Physiol, Pharmacol. Pt II of the 2nd examn. is normally taken 1½ mos. after passing the 1st. In the Final course for the M.B, B S degrees the subjects are divided into 2 groups as follows. Group I.

—Med., Path., For. Med. and Hyg., Group II—Surg., and Obstetrics and Gynæcology. The groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K. certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees, are accepted by the Univ. of London. Univs. of Bishop's Coll., McGill, Adel (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.), following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras, Med. Coll. Colombo, Univ. of Malta, Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Larynx, Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 years—there are four exams. The subjects of the Final examn. are Dental Surgery, Operative D.S. and Orthodontics.

Diploma in Psychological Medicine.

Music. The subjects for the Interim examn. are Harmony, Counterpoint, and Hist. of Mus. For the B.Mus. the subjects of examn. are Harmony, Counterpoint, Fugue, and Canon, Free Composition, Hist. of Music, and Musical Analysis. Every candidate for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn., and a musical exercise is also required.

ENGINEERING. Interim examn. subjects: Pure Maths and Applied Maths, Heat, Elec. and Magn., Engin. Drawing and Design, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed, in *Mining* 6, of which Mining Geol. and Mineral, Mining, Mine Surveying, Mineral Dressing, and Assaying are compulsory, in *Metall.* 6, of which Metall., Metall. Analysis, Metallography and Pyrometry, Electro-Metall., and Fuel and Refractory Materials, are compulsory. For an Honours degree in *Engin.*, *Mining*, or *Metall.* at least 1 extra subject must be taken at the Final examn. and a higher standard is required in all the subjects taken.

¹ **Economics.** The subjects for the Interim examn. are Economics, British Constitution, either Mathematics or Logic and Scientific Method, Geog. For the Final (in and after 1924)—Econ., Hist. of the Great Powers, Political Sc., and a selected subject. Passages are set from French and German works for translation and comment.

For the B.Com. the Interim examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—Accounting as applied to Traders and Trading Companies, or a second Approved Mod. Foreign Lang., Modern Econ. Development of the Empire. The B.Com. examn. is in: the Present Organization of Industry, Banking, Trade, and Transport, Econ. Development of the Great Powers, Elements of Comm. Law; Statistical Method, 1 selected group of subjects.

Diplomas. Academic Dip. in Sociology and Social Administration (2 yrs' course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs' part-time or shorter full-time course), either E. Hist. and Theory, Soc. and Pol. Sc., or Conditions of Soc. and Indust. Well-being and of Health—Dip. for Civic workers.

MILITARY EDUCATION. London is one of the Univs. which have established approved courses of instruction entitling them to nominate candidates for commissions in the Regular Army. The selection of qualified students is made by a Nomination Board consisting of the members of the Milit. Educn. Committee together with one or more Milit. members appointed by the War Office, who have the right of veto on any selection. An Internal degree in one of the Faculties other than Theol., Med., and Music is one of the necessary qualifications. Since 1912 Military Science has been an optional subject for the Interm. and Final (Pass) B A and B Sc examns. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

POST-GRADUATE STUDY AND RESEARCH. In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. Under Statutes 113, 113A, and 129 External graduates and graduates of, and persons who have passed the degree examns of, other approved Univs are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or Doctor in the several Faculties (but not in Medicine and Surgery), and for the degrees of Master of Arts and Master of Science. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., i.e. at the beginning of the Session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs (v *infra*—Publications).

An Internal student who is a candidate for the Ph D degree must have previously graduated in the Univ. in the faculty of Theology, Arts, Science, Engineering, or Economics, or have been registered as a candidate for the degree under Statute 113 or 129. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a Candidate for the Ph D. degree as an External Student on receiving the approval of the Council for External Students.

The B Sc degree, in the Faculties of Science and Econ., may also be taken "by Research" by Internal students under Statute 112. Candidates must have attained the age of 19 and must have passed the Interm. examn. The research must extend over at least 2 yrs.

FEES.—Matricn.—2½ gs.; Examn. and Graduation—15 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archaeology; one of £50 in Physiology; £100 in Arts, £100 in Econ., £200 for the

man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science, £200 for a graduate of a British Univ for the promotion of post-graduate research. The Gilchrist Trustees provide funds for two Studentships, viz one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs, £80, open to a B A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet obtainable post free on application to the Univ gives details of these and others.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree exams, to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W C 1, where the work of the Bureau is associated with the general UNIVERSITY APPOINTMENTS BOARD work. There is a Bureau Educational Advisory Staff (Chief Advisor Prof A J Sargent, M A). Prospectus and enquiry forms obtainable on application to the Secretary, H J Crawford, B A.

RESIDENCE Hostels recognized by the Senate. Univ Hall of Residence, 10 and 11 Carlyle Square, Chelsea, Univ Coll Hall, Ealing, for 40 men students (fees for residence, 30s to £3 a week), College Hall, Byng Place, Gordon Square, W C, for women students, King's Coll Theological Hostel, Vincent Square, The Platanes, Denmark Hill, S E, for King's Coll and its Med School. Residence is also provided at or in connexion with the S E Agric Coll, Wye, Bart's, Guy's and Middlesex Hospl. Med Schools, the Theological Colleges at Hampstead and Highbury, and the Women's Colleges.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, Malet St, W C 1.

UNIVERSITY EXTENSION DEPARTMENT The work of the *Board to Promote the Extension of Univ Teaching* falls under the following heads: (a) Univ. Extension Lectures and Tutorial Classes for Working-people, (b) Holiday Courses for Foreigners; (c) Inspection and Examin of Schools, (d) Examin for the Certif in Religious Knowledge, (e) Exams for the Certifs in Danish, English (for foreigners), French, German, Italian, Norwegian, Russian, Spanish, and Swedish, (f) Exams for Diplomas in History, Literature, Economics and Social Science, History of Art, (g) Examin for Diploma in Psychological Medicine, (h) Examin for Diploma in Dramatic Art.

(a) *Univ Extension Lectures* have been carried on by the Board since 1902, and, prior to that, since 1876, by the London Society for the Extension of Univ Teaching. By agreement with the Univs of Oxford and Cambridge the work is restricted to the Metropolitan area. Courses are held, at about 60 centres, on Hist, Lit, Art, Econ and Social Sc, Philos, Psychology, and Nat Sc. A class is held in connexion with each lecture, and students are encouraged to do regular paper-work for the lectr. An examn for certifs may be h/ld at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 lectures) of a *pioneer* or illustrative character are arranged, in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs in subjects chosen from certain groups) and by the *Diplomas in the Humanities* (Hist., Lit, Econ, and

Social Science, Hist. of Art), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study covering 4 yrs., and pass an examn. on the work of each Session, and a final examn. on the whole course. *Diplomas in History and Literature* are also awarded on the result of One Year Full-time study.

The *Tutorial Classes for Working-people* are under the immediate direction of a Joint Committee of 7 members nominated by the Board and 7 nominated by the Workers' Educational Association. The classes extend over 3 consecutive years, and membership is limited to not more than 32 students, who undertake to attend regularly and to do regular paper-work for the Tutor. Certifs. are not awarded. There were 32 classes in 1922-23.

(b) A *Holiday Course* for Foreigners is held annually in London during four weeks from the middle of July. Special stress is laid upon Phonetic teaching. The course is designed to widen the student's knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, a choral society, excursions, etc. The total number of students admitted to the course is limited to about 260, and the number in each class to 8. During the 15 years 1904-1914 and 1919-1923 the course was attended by 3734 students from 34 countries.

(c) *Inspection and Examination of Schools*. A close relationship between examination and inspection has been carefully and continuously developed by the Univ. Extension Board. The County Councils of Surrey and Middlesex have placed their Secondary Schools to the number of 60 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ. The Board of Educn. and the Univ. inspect alternately and exchange Reports.

Inspection may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as *Examination Inspection*, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for Certificates* are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school must also be approved. The examns. are of 3 grades: I Higher, II General, and III Junior, for I the (a) Higher School, (b) External Intermediate (Arts or Science) Certif., II the (a) School, (b) Matricn., or (c) School Commercial Certif., and III. the Junior School Certif. respectively. Certifs. I (a), II. (a), and II (c) are not awarded until the pupil leaves school. The Examn. fees are from 1 to 3 gs.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v p 4) respectively, and the Certifs. I (a) and II (a) awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it. A candidate who takes the *Higher* with a view to qualifying for the External Intermediate Arts or Science Certif. offers for examn. the same syllabuses as those of the Ext. Interm. examns. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of 17s. 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age. For Certif. II. (c) the combination of subjects required differs from that required for II. (a), and the subjects are

treated from the commercial standpoint. The Senate have established a Panel of Advisors, consisting of a number of the leading authorities on Comm. subjects, to advise them in matters of policy and principle in connexion with the Scheme.

The *Junior School Examination* is intended for pupils about the age of 15.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I and in Genl. Elem. Science at grade II, in which they form an essential part of the examn.

(d) The *Examination for the Certificate in Religious Knowledge*, instituted in 1909, is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(e) *Examinations for the Certificates in French and in German* (instituted in 1913), in *Italian, Russian, and Spanish* (instituted in 1919), and in *Danish, Norwegian, and Swedish* (instituted in 1921), are held in July and Aug.; in *English* (for foreigners, instituted in 1920) in Aug. or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(f) The *Examinations for the Diplomas in History; Literature*—English Lang. and Lit. or General Lit.; *Economics and Social Science*—either Economic History and Theory, Social and Political Science, or Conditions of Social and Industrial Well-being and Conditions of Health (Dip. for Civic Workers); *History of Art*—are held once a year in Oct. for students who have followed a recognized course of study for 4 yrs. as part-time students or for a shorter period as full-time students.

(g) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(h) The *Examn. for the Diploma in Dramatic Art* will be held once a year, beginning in July 1925, and will be open to students of not less than 17 years at Training Schools or Institutions where courses have been approved.

[Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W. 7.]

PUBLICATIONS. The following are obtainable from the Univ. of Lond. Press, Ltd., 17 Warwick Sq., London, E.C. 4.

The Calendar, pubd. in Sept., price 6s. net, postage 1s. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 7s. The Courses are pubd. separately for the several Faculties, 3d. each net. *Regns. for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 8d., *London Univ. Gazette*, pubd. at average intervals of 4 weeks, the Examn. Lists are pubd. in Supplts., annual subs., including postage, 5s.; single no., 8d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 1s. 1d. to 3s. 10d. *Libraries of London*—a Guide to Students, by R. A. Rye, Goldsmiths' Librarian, 6d., postage 3d.; 2nd edition, 2s. 6d., postage 6d. *Historical Record of the Univ.*, pubd. in 1912, contains (a) a Hist. of the Univ.; (b) the Univ. Charters, and Acts of Parliament referring to the Univ.; (c) former Fellows; (d)

Donations and Trusts, (e) Graduates; (f) persons to whom prizes, etc., have been awarded, and other information of historical interest; 5s. net, postage 6½d. Students' *Union Magazine* monthly, *Vincula* fortnightly.

Regulations The following may be obtained on application to the Univ Regns for Matricn, Regns for Int and for Ext Students (pubd. separately) for Degrees in Arts, Science, Agric, etc., for the various Diplomas and Certificates in special subjects, for Ph D. Degree, Scholarships pamphlet. Applications for any of these should be addressed to the Principal

O.T.C. Handbook obtainable from the Secy, 46 Russell Sq, W C 1.

Regns for Admission of Students from other Univs as Candidates for Higher Degrees (except in Med. and Surg.), and *Regns under Statutes 113a and 125a*, obtainable from the Academic Registrar.

THE YEAR 1922-23

BENEFACTIONS Grant (in part conditional) by L C C for triennium, £34,800 p a, grants by Middx, £3490, Kent, £2500, Surrey, £2500, Essex, £500, Croydon, £300, Southend, £200, East Ham, £100, and West Ham, £10 a head for each full-time day student domiciled in West Ham Grants for Univ Extension from Court of Common Council, various charities, and Merchant Taylors' and Cutlers' Companies Mrs Preedy, £300 of 3½ per cent stock for library Since the close of the year the Univ has received a gift of £10,000 for a Lecturship in Otology The donor, G E Duveen, proposes also to give £15,000 for provision at Univ Coll for treatment of the deaf

NEW BUILDINGS Rockefeller buildings for Anatomy and Physiology completed Foundation stone of Obstetric Hospl and Nurses' Home laid by the King and Queen

New Posts Ramsay Memorial Prof of Chemical Engineering, Director of School of Hygiene Readers in Social Anthropology, Cultural Anthropology, English Literature Adviser to External Research Students in History Lectr in Otology (v Benefactions)

IMPORTANT CHANGES IN REGULATIONS AND OTHER DEVELOPMENTS New Board instituted in "The Principles, History and Method of Science", dates of exams for bachelors' degrees in Arts, Sc, and Econ., advanced from Oct to June, "student-assistant" system under which students in the School of Librarianship at Univ Coll may undertake Catalogue work in Univ library, LL M degree, B.A. Honours degree in Anthropol for internal students, academic diplomas in Psychology and Theology, and Univ Extension diploma in Dramatic Art Amendment of regns in the faculties of Med and Laws and those dealing with exams for Secondary Schools Grant of £400 and loan of £200 to Union Society Since the close of the year a committee has been appointed to review the existing provision for the study of Music in the Univ.

INTERNAL STUDENTS, 8954 CANDIDATES AT EXAMNS matricn and registration, 20, 148, for first degrees, 2824, for higher degrees, 367 Students examined finally for degrees internal, 2013, external, 1178.

RESEARCH STUDENTS. Applications received up to Feb 1923 for registration as internal students for the Ph D degree 385, including students from other Univs. in the U.K (84), Europe (10), Australia and N.Z. (16), U.S.A. (30), India (62), S Africa (3), Canada (8), Japan (1).

Visitors from other countries who delivered lectures Profs. Feullerat of Rennes, H. A. Lorentz of Leiden, G. N. Lewis of California, W. Adams Brown

(Union Theol. Seminary, New York), Troeltsch (Univ of Berlin), T Reinach (Paris), W Barthold (Univ of Petrograd), A Lefranc (Paris), G. Cassel (Univ. of Stockholm)

UNIVERSITY EXTENSION courses 147, terminal enrolment 12,700 Work started in 7 new centres, and revived in 5 The total number of courses increased slightly ; larger percentage of students qualified for certifs *Tutorial classes*, 32 Summer school on 4 Saturdays with average attendance of 325 *School Examns* 23 schools added to list, making total 320 General school examn taken by 11,354 candidates *Holiday Course for Foreigners* attended by 172 students from 16 countries Switzerland 37, Denmark 29, Sweden 28, Norway 19, France 16, Holland 9, Italv 8, Estonia 7, Czecho-Slovakia 6, Japan 4, Russia 3, Spain 2, Austria, Korea, and U S A , 1 each In 1924 the course will be from July 19 to Aug 15

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE—THE VISCOUNT CHELMSFORD,
GCSI, GCMG, GCIE, GBE

VICE-CHAIRMAN—SIR JOHN ROSE BRADFORD, KCMG, CB, CBE,
MD, DSc, FRCP, FRS

TREASURERS—E DE Q QUINCEY, FV SCHUSTER, BA.

PROVOST—SIR GREGORY FOSTER, BA, PhD

SECRETARY—W. W SETON, MA, DLit, Dr J, FSA

TUTOR TO WOMEN STUDENTS—WINIFRED SMITH, BSc

LIBRARIAN—L NEWCOMBE

PROFESSORS, LECTURERS, ETC, January 1, 1924

Anatomy
Smith, G Elliot, MA Camb,
MD, MS Syd, FRCP,
FRS Prof

Hill, J P, DSc Edin, FRS
Prof (*Embryol*)

Perry, W J, MA Camb
Reader (*Cult Anthropol*)

Woollard, Herbert, MD, BS
Melb Asst Prof

Harris, H A, MB, BS, BSc,
FZS Sr Demr & Curator

Kulchitsky, N, MD Kharkov
Lectr (*Histology*)

2 Hon. Lectrs (*Radiology*) and 2
Hon Research Assts

5 Demrs and Assts

Archæology, v also Ass, Egypt
Gardner, E A, Litt D Camb

Yates Prof
Spearing, H G, MA. Lectr

Page, W, FSA Lectr

Architecture [Prof

Richardson, A E, FRIBA

Adshead, S D, MA Liv,
FRIBA

Prof (*Town Planning*)

Stratton, Arthur, FRIBA,
FSA. Reader and Tutor
5 Assts

Art (Fine Art)
Tonks, H Slade Prof
Borenus, Tancred, PhD Helsing
Prof (History of Art)

Russell, W W, ARA
Asst Prof

Steer, P W Asst Prof

Mawson, Sidney Lectr

Porter, A T, MA Camb Lectr

Dixon, G Lectr

Child, C Koe Sr Asst
6 Assts

Assyriology
Pinches, T G, LL D Glas
Lectr.

Astronomy, v Maths.

Bio-Chemistry, v Physiol

Botany

Oliver, F W, MA Camb, DSc,
FRS Quain Prof

Hill, T G, ARCS
Reader (Plant Physiol)

Haas, P., Ph D Freib, D Sc
 Reader (Plant Chem).
 Salisbury, E J, D Sc
 Reader (Plant Ecol).
 Smith, Winifred, B Sc Lectr
 Cutting, E M, M A Camb
 Sr Asst.

3 Assts

Celtic

Flower, R E, B A Ox Lectr

Chemistry

Colhe, J Norman, Ph D Wurz,
 LL D Glas, D Sc Liv and
 Belf, F R S

Prof (Organic) and Dir
 of Labs

Donnan, F G, C B E, M A,
 Ph D Leip, D Sc Liv, F I C,
 F R S Prof (General)

Masson, Irvine, M B E, D Sc
 Melb Reader (Inorg)

Brady, O L, B A Cape, D Sc,
 F I C Reader (Org)

Garner, W E, M Sc Birm and
 Lond Sr Lectr

Evans, H J, B Sc
 Sr Lectr (Med Students)

Goodbody, F W, B A Dub,
 M D Lectr (Med)

Burke, Katherine A, B Sc
 Asst Lectr

Terrey, H, B Sc Asst Lectr
 Gilbert, L F, B Sc Asst Lectr

Bailey, C R, B Sc Asst Lectr.
 Mitchell, A E, B Sc W Australia,
 Ph.D Asst Lectr

Day, J N E., B Sc, A R C S,
 A I C Asst Lectr

2 Assts

Chemical Engineering

Williams, E C, M Sc Manc
 Ramsay Prof.

..... Lectr

Classics

Platt, J. Arthur, M A. Camb.
 Prof (Greek)

Solomon, L., M.A. Ox. Sr. Lectr

Butler, H. E, M A Ox
 Prof (Latin)

Solomon, L, M A Ox Sr Lectr
 3 Assts

Danish, v Scand

Dutch

Geyl, P, Lit D Leyd Prof
 Harting, P, Lit D Utrecht

Reader

Economics, v Polit

Economic Geography

Lyde, L W, M A Ox Prof.
 Shackleton, Margaret R, B A

Asst.

2 Assts

Egyptology and Coptic

Petrie, Sir Flinders, D C L Ox,
 LL D Aberd, F B A, F R S

Edwards Prof

Murray, Margaret A Sr Lectr
 i Hon Asst

Embryology, v Anatomy

Engineering, Electrical

Fleming, J A, M A Camb, D Sc,
 F R S Pender Prof

Clinton, W C, B Sc, M I E E
 Asst Prof

Hawkins, C C, M A Ox, M I E E
 Lectr

Jackson, A N, B Sc
 Lectr (Design)

Engineering, Civil and Mechanical

Coker, E G, M A Camb, D Sc
 Edin, F R S, M I C E (Dean)

Prof

The Prof of Munic Eng
 Reader (Surveying)

Lloyd-Evans, B J, B Sc
 Sr Lectr

Davidge, H T, B Sc, M I E E
 Sr Lectr

Barker, A H, B A, B Sc
 Lectr (Heating and

Ventilating)

Cookson, A C, M I C E
 Lectr. (Railway E).

Cunningham, Brysson, D.Sc Belf,
B E N U I, M I C E

Lectr (Waterways, Har-
bours, and Docks)

Sprague, E, A M I C E Sr Asst

Webb, A E, B Sc, A M I C E.

Sr Asst

Collins, H J, M Sc Birm

Asst Lectr

2 Hon Research Assts, 4 Assts

Engineering, Municipal

Ormsby, M T M, A R C S Dub,

M I C E I Chadwick Prof

1 Asst

English

[Quain Prof

Chambers, R W, M A, D Lit

Sisson, C J, M A Edin, D -ès-L

Dijon Reader

Grattan, J H G, B A Sr Lectr

Blackman, Elsie, M A Sr Lectr

Foster, Sir Gregory, B A, Ph D

Stras Lectr

Baker, E A, M A, D Lit Lectr

Doughty, O, M A, B Litt Ox

Asst Lectr

3 Assts

Eugenics, Applied Statistics and

Pearson, Karl, M A Camb, LL D

Aberd and St And, F R S

Galton Prof

Greenwood, M, M R C P,

M R C S

Reader (Med Stats)

Elderton, Ethel M

Asst Prof, Galton Re-

search Fellow

Stocks, P, M A, M D, B Ch

Camb., D P H Med Officer

6 Assts and 3 Hon Research Assts

French, v also Hist

Brandin, L M, M A, Ph D

Greifs Fielden Prof

Jeaffreson, J W, B A Sr Asst

4 Assts

Geography, v also Ec

Garwood, E J, M A, Sc D, F R S

Yates - Goldsmid Prof

(Physical G)

Lyde, L W, M A Ox.

Prof (Economic G).

The Prof of Munic Engineering

Reader (Surveying)

3 Assts.

Geology and Mineralogy

Elsden, J V, D Sc

Lectr.

Goodyear, Edith, B Sc Sr Asst.

2 Assts.

German

Priebsch, R, Ph D Graz Prof

Robertson, J G, M A, B Sc

Glas, Ph D Leip Prof

Perrett, W, B A, Ph D Jena

Reader

2 Assts

Hebrew

Gollancz, Sir Hermann, M A,

D Lit Goldsmid Prof

History, v also Art

Montague, F. C, M A Ox

Astor Prof (Mediaeval &

Modern H)

Pollard, A F, M A Ox, Litt D.

Manc, F B A

Prof (English H)

Davis, Eliza Jeffries, M A

Reader (London H)

Aston, Maj -Gen Sir George,

K C B Lectr (Military H)

Bolland, W C, M A Camb

Lectr (Sources of Legal H)

Temperley, H W V., M A

Lectr (Diplomatic H)

Seton, Walter W, M A, D Lit,

F S A

Hon Lectr (Scottish H)

Adair, E R, M A Camb

Sr Asst and Tutor to

Civil Service Students

Vaucher, Paul, L -ès-L. Paris

Prof (Mod. French H)

Cary, M, M A, D Litt Ox

Reader (Ancient H)

Baynes, Norman H, M A. Ox

Reader (Roman Empire)

5 Assts.

History and Method of Science

Wolf, A, M A Camb, D Lit
 Prof (Logic & Scientific
 Method)
 Singer, C, D M, D Litt Ox,
 F R C P
 Lectr (H of Medicine)

Hygiene and Public Health

Kenwood, H R, C M G, M B
 Edin, D P H, F C S
 Chadwick Prof
 Foulerton, A G R, F R C S,
 D P H Camb Lectr

Italian

[Prof
 Cippico, Senator A, Dr J Graz
 Gardner, E G, M A, Litt D
 Camb
 Prof (Early I Lang and Lit)
 1 Asst

Journalism

Solomon, Laurence, M A Ox
 Tutor
Law, v p 153

Librarianship

Baker, E A, M A, D Lit
 Director and Lectr
 Newcombe, L Asst Dir
 8 Assts

*Mathematics (Applied) and
 Mechanics*

Filon, L N G, B A Camb, M A,
 D Sc, F R S Prof
 The Senior Lectr (Davidge) in
 Civil and Mech Engin
 Harris, H J, B A Sr Asst
 Jessop, H T, M Sc. Sr Asst
 Gregory, C C L, M A Camb,
 F R A S
 Asst Lectr (*Astronomy*).
 2 Assts

Mathematics (Pure)

..... Astor Prof
 Wren, T L, M A Camb
 Reader (Geom)
 Titchmarsh, E C, B A. Ox
 Sr Lectr
 Harris, H. J., B.A. Sr. Asst.

Wood, Florence M, M A
 Sr Asst
 1 Hon Research Asst and 2 Assts

Military Science

[Lectr
 Phillips, Lt-Col G P A, O B E

Norwegian, v Scand*Pharmacology*

Clark, A J, M D, B A Camb,
 F R C P, D P H Prof
 1 Asst

Philology

Thomas, F W, M A, Ph D
 Lectr (Comparative P)
 Priebisch, R, Ph D
 Prof (Germanic P)
 Brandin, Louis M, M A, Ph D
 Prof (Romance P)

Philosophy and Psychology

Hicks, G Dawes, M A, Litt D
 Manc, Ph D Leip
 Prof (Philos)
 Spearman, C, Ph D Leip
 Grote Prof (Mind & Logic)
 Flugel, J C, B A Ox Sr Lectr
 Ginsberg, M, M A Lectr
 Philpott, S J F, B Sc.
 Asst Lectr
 1 Asst and 2 Hon Demrs

Phonetics

Jones, Daniel, M A Camb Prof
 Perrett, W, Ph D Jena, B A
 Reader (German)
 Armstrong, Lilius E, B A
 Sr Lectr
 Jones, S, B Sc Wales
 Laboratory Supt
 Ward, Ida C, B Lit Durh
 Asst Lectr
 Lloyd-James, A, M A Camb
 Sr Asst

6 Assts

Physics

Quain Prof
 Porter, A W, D Sc Melb, F R S
 Reader (Thermodynamics).
 Orson-Wood, D, M Sc, A R C S,
 F I P. Sr Lectr

Sutherland, G A, M A. Camb,
B A Cape Sr Lectr
1 Hon Research Asst, 4 Assts

Physiology

Hill, A V, O B E, M A, Sc D
Camb, F R S Jodrell Prof
Bayliss, Sir William M, M A,
LL D Aberd and St And,
D Sc Ox, Sc D Dub, F R S
Prof (General Physiol)

Drummond, J C, D Sc
Prof (*Bio-Chem*)

Harris, D. T, M B, B S Wales,
Ch B Manc, B Sc Asst Prof

Anrep, G V, M D Petrograd,
D Sc Sr Asst

Cannan, R K, M Sc
Sr Asst (Chem P)

1 Hon Research Asst, 8 Assts
Starling, E H, C M G, M D,
B S, Sc D Camb and Dub,
F R C P, F R S

Foulerton Prof (Royal Soc).

Political Economy

Foxwell, H S, M A Camb,
F B A Prof

Higgs, H, C B, LL B
Newmarch Lectr

Hooker, R H. Jevons Lectr

Scandinavian Studies

Director.

Helweg, J H, Cand Mag Copen-
hagen Lectr (Danish).

Grondahl, I C, Cand Mag
Christiania
Lectr (Norwegian)

Bjorkhagen, Im, Phil Lic Up-
sala Lectr (Swedish)

Semitic (North) Epigraphy

Hirschfeld, H, Ph D Stras
Lectr

*Statistics, v Eugenics**Tibetan*

Thomas, F W, M A Camb,
Ph D Munich Reader.

*Town Planning, v Archit**Zoology and Comparative Ana-
tomy*

Watson, D M S, M Sc Manc,
F R. S Jodrell Prof

Fraser, Elizabeth, D Sc Sr. Asst
3 Assts

GENERAL INFORMATION

Address—Gower St., W C.1 Telegrams—University College, London
Telephone—734 Museum

Founded in 1826 and opened Oct 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836 On Jan. 1, 1907, it was incorporated into the University of London. It has 107 Appointed and Recognized Teachers (v p 93), and, in all, 49 Profs and 206 other Teachers.

LIBRARIES (containing, in all, 170,000 vols and 40,000 pamphlets) (1) General, including Barlow (Dante), Blackburn (Law), Carnegie (American History and Institns), Field (Fine Art), Graves (Maths), Leighton (Philos) Morris, Quam (Law), Ricardo (Polit Econ), Strong (Oriental), and Whitley Stokes (Celtic) collections, and the Bentham MSS, (2) Science, including Fownes (Chem), Graham (Chem), and Grant (Zool) collections, and an exceptionally complete collection of scientific journals, (3) Medical Sciences, including Sharpey (Anat and Physiol) collection, (4) Special Arts Libraries for Archit, Classical Archæol (Yates), Classics and Anc. Hist, Egyptol. (Edwards), English, French, German, Hist, Jewish Hist and Antiq (Mocatta), Librarianship, London Hist, Philos and Psychol, Phonetics, and Scandinavian.

MUSEUMS. Anat., Bot., Chem., Egypt, Engin, Geol and Mineral, Math. Zool. Two Astron. **OBSERVATORIES**

COURSES. Arts, Laws, Science, Engineering, Medical Prelim. and Intermediate, Hygiene. Open to students of both sexes The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit A *Diploma* in Engin. is given after a 3 yrs' course, and *Certificates* in Engin (2 yrs.), a *Diploma* in Archit (5 yrs) and a *Certificate* in Archit (3 yrs)

All departments of the College are available for POST-GRADUATION AND RESEARCH WORK, and the respective Professors are always prepared to advise such students desirous of undertaking research, whether for higher degrees or otherwise

DEPARTMENT OF APPLIED STATISTICS The *Francis Galton Laboratory for National Eugenics* was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally It is open to Research students in Eugenics of both sexes The *Drapers' Company's Biometric Laboratory*, founded 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, etc Research workers can start any time during the session, but, unless attending the lectures in the Dept, are expected to have a preliminary training either in Biology or Maths

Courses of Instruction are given on Statistics and cognate subjects, and also short courses of popular lectures Fees (for Research workers) per Term, £5 A Fee of 17 gs per session admits to the Eugenic and Biometric Labs on all days and to all lectures, as well as to the use of the Library and of the material in the Archives Fee for use of calculating machines 1½ gs per term For list of publications, v *infra*

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit Schools of University and King's Colleges The Certificate (3 yrs) and Diploma (5 yrs) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final exams respectively. The accommodation includes three large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room Rooms are also provided for the Department of Town-Planning instituted in Oct 1914 The day work is supplemented by evening classes in design There is an Atelier for graduates and advanced students.

FOREIGN STUDENTS are admitted to the College on the same terms as British They are expected to produce identification papers In August a *Vacation Course* is held in Phonetics and Spoken English (Director Prof Daniel Jones) Men attending that Course can reside at University College Hall, Ealing Special courses in Aspects of British Life and Civilization take place *throughout the session* The Secretary will always advise foreign students by correspondence or personal interview as to the cost of residence in London and as to suitable houses The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ Coll, London, among other places; four Fellows from overseas are now working there

FEES. Composition for 3 sessions' course in Arts—98 to 105 gs, 5 sessions' course in Archit.—228 gs, B Sc—135 to 140 gs., Engin—168 gs.; Econ.—21 gs. per session; Med for 1st examn—35, 2nd—80 gs, Laws—18 gs per session; Fine Art—28 gs. per session, for Higher Civil Service—50 gs

SCHOLARSHIPS, ETC. Annual value, £2400

RESIDENCE. A Hall for 52 men at Ealing, £2 to £3 a week. One for women in Byng Place, W.C.

PUBLICATIONS. *Calendar* (Oct), 3s 6d; *Annual Report*, *Union Societies' Magazine*, *Prospectus* of post-graduate courses and arrangements for research. Dept of Applied Statistics. *Eugenics Lab Memoirs* (1-xxi) and *Lecture Series* (1-xiii, popular exposition of conclusions), *Treasury of Human Inheritance* (10 parts) *Biometrika Journal* (1-xv), Drapers' Company Research Memoirs, *Biometric Series* (1-xii), and *Studies in Natural Deterioration* (1-x), Drapers' Company *Technical Series* (1-vii), *Tracts for Computers* (1-x) Ephemeral papers published in *Questions of the Day and the Fray* (1-xii)

THE YEAR 1922-23 (v. also Appendix XXIX.)

BENEFACTIONS L.C.C., £5000 towards cost of equipment of Dept of Engineering, Carnegie U.K. Trust, £1500 p.a. for School of Librarianship, Drapers' Company, £500 p.a. for Biometric Laboratory, per Italian Ambassador, £300 p.a. for Italian, Chadwick Trustees, £250 for Sanitary Science and £85 for apparatus for Munic Engin, for conversion of Lect'ship in History of Art into part-time Prof'ship, £230 10s p.a. (including £100 from Sir Otto Beit), Anonymous, £200 p.a. for Lect'ship in Diplom History; late Sir Wm Meyer, £3000 (for encouragement of proficiency in European History and Hist and Geog of India), towards fund for Chem Engineering, £800 from 8 industrial firms, Lord Leverhulme, £50 (Prizes in Town Planning and Archit), Andrew T Taylor, two ann Prizes of £5 each (Archit), Ronald Jones, £10 (Prizes in Archit), Anonymous, Prof Tonks, C K Child, P W Steer, and W W Russell, £22 10s for Prizes in Slade School, Miss Agnes Paul, £3 3s (Prize, Dept of Greek), for Redecoration of Flaxman Gallery, £155.

SPECIAL EVENTS Visit of the KING and QUEEN on May 31, 1923, when new (Rockefeller) Anatomy and Physiology buildings were opened Queen Alexandra became patroness of endowment fund for Scandinavian studies

NEW BUILDINGS, etc Rockefeller Anatomy building opened by the King on May 31, Physiology and Pharmacology Depts extended, and new sub-departments of Embryology, Histology, and Bio-chemistry created, Engineering wing extended, site for new Zoology building acquired, two houses acquired for new Chemical Engineering Dept.

NEW DEVELOPMENTS Ramsay Memorial Chair of Chemical Engineering; Chair of Early Italian Language and Lit., Readerships in English Lit and Cultural Anthropology, Hon Lect'ships in Scottish History and Radiology (2)

RETIREMENTS Prof M J M. Hill (Pure Maths), but remaining Acting-Head pending appt of successor, Prof Sir Wm Bragg (Physics), apptd. Fullerman Prof, Royal Instn, and Director Davy-Faraday Lab; Prof. E H. Starling (Physiol), but remaining member of staff as Foulerton Research Prof (Royal Soc), Martin Briggs, apptd H. M. Inspector of Technical Schools; P Leon, apptd Lectr in Classics, Leicester, Miss I Curnow, apptd Lectr. in Cartography, Univ Manc, Dr I de Burgh Daly, apptd Lectr. in Expl. Physiol, Welsh Nat Sch Med; R A Dart, apptd Prof. of Anat, Witwatersrand Univ

DEATHS. Emeritus Prof W. P. Ker (July, 1923), Prof. Engl Langs and Lit, 1889-1922, Emeritus Prof F. T. Trouton, Quain Prof. of Physics, 1902-1915, Dr Vaughan Harley, Prof. Path Chem, 1896-1919; J. F. Blumhardt, Prof of Sanskrit, 1895-1913; Prof. T. W. Rhys Davids, Prof. of Pali and Buddhist Lit, 1882-1909, Dr. Talfourd Ely, Mr. Lewis Haslam; Sir Wm. S. Meyer.

UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

CHAIRMAN OF THE DELEGACY—VISCOUNT HAMBLEDEN.

VICE-CHAIRMAN—A J ALLEN

TREASURER—SIR EDWARD TROUP, K C B , K C V O , L L D

PRINCIPAL—ERNEST BARKER, M A , D Litt Ox , L L D

SECRETARY—S T SHOVELTON, M A Ox

TUTOR TO WOMEN STUDENTS—ADA E LEVETT, M A Ox

LIBRARIAN—F W WALTON, M A

PROFESSORS, LECTURERS, ETC., January 1, 1924

- | | |
|---|------------------------------------|
| <i>Anatomy, Descriptive and Surgical</i> | Partridge, W , F I C |
| Barclay-Smith, E , M A , M D ,
B Ch Camb | Lectr (Chem) |
| Prof (A and Anthropol) | <i>Bibliography</i> , v English |
| Gladstone, R J , M D , C M | <i>Biology</i> , v Zool |
| Aberd , D P H , F R C S | <i>Botany and Plant Biology</i> |
| Lectr (A and Anthropol) | Gates, R Ruggles, M A Mt |
| Boyd, S A , M B , F R C S | Allison, B Sc McG , Ph D |
| Lectr (Applied A) | Chic , F L S Prof |
| 3 Demrs | Schwartz, E J , M A , D Sc |
| <i>Anthropology</i> , v Anat | Lectr |
| <i>Bacteriology and Public Health</i> | Chapman, R E , M Sc Leeds |
| Simpson, Sir Wm J R , C M G , | Asst Lectr |
| M D , C M Aberd , F R C P , | 1 Demi |
| D P H Camb Prof | <i>Chemistry</i> |
| Hewlett, R T , M D , F R C P , | Smiles, S , O B E , D Sc , F R S , |
| D.P H Prof | F I C Daniell Prof |
| Sommerville, D , M D , B Ch , | Allmand, A J , D Sc Liv , F I C |
| B A O , B A R U I , M Sc | Prof |
| Belf , D P H Camb | Cremer, H W , M Sc , A I C. |
| Asst Prof | Lectr. |
| Taylor, F E , M A , M Sc Manc , | Fairbourne, A , B A Ox , M Sc |
| M B , Ch B , D P H Camb , | Manc , F I C Lectr |
| M D , B S , F R C S | Salmon, C. S , M Sc Bris Lectr |
| Lectr in B | Dolley, L G F , B Sc , Ph D |
| Charles, R , F I C | Asst Lectr |
| Lectr (Foods and Drugs Act) | Thomson, R W M , B Sc St |
| Malcolm, A J , M R C S , L R C P , | And Asst Lectr |
| D P H. | 3 Demrs |
| Lectr (School Hygiene) | <i>Classics</i> |
| | Thomson, J A K., M.A Prof. |

KING'S COLLEGE & KING'S COLLEGE FOR WOMEN 113

The Principal Lectr
 Knight, Clara M, D Lit Reader
 Hall, E B, M A Lectr
 Handford, S A, B A Ox
 Asst Lectr
 Bevan, E, M A Ox, LL D
 Lectr (Hellenistic Greek
 and History)

Czecho-Slovak, v Slav

Economics, v Hist

Education

Adamson, J W, B A Prof
 Showan, P B, M A Liv. Lectr

Engineering, Civil

Jameson, A H, M Sc Manc,
 M I C E Prof
 Lobban, C H, B Sc (Eng),
 A M I C E Sr Lectr
 White, C M, B Sc. Asst Lectr

Engineering, Electrical

Wilson, Ernest, M I C E, M I E E
 Siemens Prof
 Robertson, F Steele, M I E E
 Lectr
 Clarke, H M, B Sc, B Sc (Eng)
 Lectr

Engineering, Mechanical

Cook, Gilbert, D Sc Manc,
 A M I C E, M I Mech E
 Prof
 Genève, C A, B Sc (Eng),
 A C G I, A M I Mech E
 Sr Lectr
 Campbell, H G, B Sc (Eng)
 Durh, A M I Mech E
 Asst. Lectr.
 Asst Lectr

English

Gollancz, Sir Israel, Litt D Camb,
 F B A Prof
 Pollard, A W, C B, M A Ox,
 D Litt Durh
 Prof (E *Bibliography*)
 Reed, A. W, M A (Tutor for
Journalism courses) Reader
 Dav, Mabel, M A, D Lit Lectr

Ingram, E Gwendolen, M A
 Lectr. (E *Philology*)
 Nicoll, J. R Allardyce, M A. Glas
 Lectr

Baxter, F. W, B A Ox
 Lectr. (E Lit.).
 i Asst

French

Spiers, V, M A Ox, B ès L
 Paris Prof
 Shears, F S, B A, D de l'U,
 Paris

Reader (*Romance Philol*)

Webb, C D, M A, D Lit, B Sc
 Lectr

Hughes, R W, M A Ox, Dip
 d'E S, Paris Lectr

Jones, R A, B A Asst Lectr

Geography

The Profs of Botany, Geol, Civil
 Engin, Imperial Hist,
 Physics and Modern Greek
 (in conjunction with staff of
 London School of Economics)

Geology

Gordon, W T, B A Camb, M A.
 Edin, D Sc, F G S Prof
 Wells, A K, M Sc, F G S Lectr.
 Wooldridge, G W, B Sc Demr

German

Atkins, H G, B A Camb, M A,
 D Lit Prof.
 Steppat, J, Ph D. Vien, B A.

Reader

Buchheim, Emma S Lectr
 Haltenhoff, A G Lectr
 Rose, W, M A Lectr
 i Asst

*Greek, Modern, and Byzantine
 Hist*

Toynbee, A. J, M A Ox
 Koraes Prof.

Hebrew

Box, G H, M A. Ox, D D St
 And Lectr

Histology, v Physiol.

History, v also Classics, Greek,
Slav

Hearnshaw, F J C, M A, LL M
Camb, LL D Dub, M A
(also Lectr in Law) Prof

The Principal Lectr
Newton, A P, B Sc, D Lit

Rhodes Prof of Imperial H
Laistner, M L W, M A Camb

Reader in Ancient H
Jacob, E F, M A Ox

Lectr (Mediæval H)
Levett, Ada E, M A Ox Lectr

Chew, Helena M, M A.
Asst Lectr

Jenkins, C, M A Ox
Prof (Eccl H)

Hall, Hubert, Hon Litt D Camb
Reader in *Palæography*

and *Economic H*
Jenkinson, Hilary, M A Camb

Lectr (Sources of English
H)

1 Asst

Household and Social Science,
v *infra*

Hygiene, v Bact

Italian

del Re, Arundell, M A Lectr

Journalism, v English

Law, v p 153

Materia Medica and Pharmacology

Inchley, O, M A, M D Camb
Lectr

Mathematics

White, S A F, M A Ox Prof
Jeffery, G B, M A, D Sc. Prof

Dale, J B, M A Camb, B A.
Asst Prof

Edwards, R W K., M A Camb
Sr Lectr

Shovelton, S T, M A Ox Lectr
Sherriff, Catherine W M, M A,

B Sc. St. And Asst Lectr

Microscopy

Barnard, J. E. Lectr

Military Science [Lectr
Phillips, Lt-Col G P A, O B E

Palæography, v. Hist.

Pharmacology, v Mat Med

Philology, v English, French,
Slavonic

Philosophy, v also Psych
Carr, H Wildon, D Litt Durh

Prof
Oakeley, Hilda D, M A McG

Reader
Matthews, W R, M A, D D (also

Lectr in Theology)
Prof (P of Religion)

Physics

Richardson, O W, M A Camb,
D Sc, F R S

Wheatstone Prof
Curtis, W E, D Sc, A R C S

Reader
Flint, H T, M Sc Birm, B Sc,

Ph D Lectr
Worsnop, B L, B Sc Lectr

Williams, W E, B Sc
Asst Lectr

Jones, J H, B Sc Wales
Asst Lectr

2 Demrs

Physiology

McDowall, R J S, M B Edin,
D Sc Prof

da Fano, C, L D Pavia, M D
Reader (*Histology*)

de Souza, D H, M D, D Sc,
F R C P Lectr

Hewitt, J A, B Sc, Ph D St
And, A I C Lectr

1 Demr

Polsk, v Slav

Portuguese [Camoens Prof.

Prestage, A, B A Ox
Bentley, W A, M A Lectr

Lane, E, B A Coimbra Lectr

Psychology

Aveling, F A P, D D Rome,
Ph D Louv, D Sc Reader.

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Hadfield, J A , M A Ox , M B ,
Ch B Edin Lectr
i Demr

Public Health, v. Bact

Romance, v French

Roumanian

Beza, M , L ès L Lectr

Russian, v Slav

Serbian, v Slav

Slavonic Studies

Pares, Sir Bernard, K B E , M A
Camb

Prof (Russian Hist), Dir
of the Dept

Jopson, N B , B A Camb

Reader (Comparative S
Philology)

Raffi, Arshak

Lectr (Russian Lang)

Mirsky, Prince D S , of Petrograd
and Kharkov Univs

Lectr (Russian Lit)

Williams, H , Ph D Munich

Lectr (Russian Ethnog)

Meyendorff, Baron A F , of Petro-
grad

Lectr (Russian Laws,
Institutions, etc)

Wharton, L , M A Ox

Lectr (Polish Lang and Lit)

Seton-Watson, R W , D Litt Ox ,
Ph D Prague and Zag

Masaryk Prof (Central
European History)

Subotić, D , Ph D Munich

Lectr (Serbian Lang
and Lit)

Vočadlo, O , Ph D. Prague

Lectr (Czecho-Slovak
Lang and Lit)

Spanish Studies

Pastor, A R , B Litt Ox , D Ph
Madrid Cervantes Reader

Villasante, J. M , LL D Madrid
Sr Lectr

Perry, Janet, M A Lectr
Carey, J R , B A Asst Lectr

Theology, v Philos.

Zoology and Animal Biology

Dendy, A , D Sc Manc , F R.S

Prof

MacKinnon, Doris L , D Sc Aberd
Reader

Tribe, Margaret, M Sc

Lectr & Demr.

i Asst Demr

Household and Social Science Department

Biology [Reader

Esdaile, Philippa C , D Sc Manc

Triffitt, Marjorie J , M Sc Demr

Chemistry [Prof

Tinkler, C Kenneth, D Sc Birm ,
B Sc Lond and Wales, F I C

Masters, Helen, B Sc Asst Lectr

Browne, Agnes, B Sc , A I C

Asst Lectr

Economics and Business Affairs

Burns, A. R , B Sc (Econ)

Lectr

*Household Work and Institu-
tional Admn*

Dyer, Margaret Lectr

Maughan, Margery, B Sc

Asst Lectr

King, M Hamilton, Univ Dipl
H and SS Asst Lectr

Hygiene and Bacteriology

Henry, Lydia M , M D Lectr

Dukes, Cuthbert, O B E , M D
Edin , M Sc , D P H Lectr

Physiology [Prof

Mottram, V. H , M A Camb.

Hartwell, Gladys, D Sc

Asst Lectr

Clifford, Winifred M , M Sc

Demr

Physics

Dillon, Miss T J , B Sc

Lectr

GENERAL INFORMATION

Address—Strand, W C 2 Telephone—207 Gerrard.

Founded by Royal Charter in 1829 for "instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839, the Evening Classes were started in 1856, and a Women's Dept in 1881. In 1910 the College School became a separate Corporation, the Hospl and Advanced Med School were made independent, the other Depts (except the Theological) doing work of University standard were incorporated in the Univ of London, while the Council remained the governing body of the Theol Dept, which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. King's College has 94 Appointed and Recognized Teachers, King's Coll for Women, Household and Social Sc Dept, has 9

LIBRARY, 55,000 vols, including the Marsden (Philol and Oriental), Skeat and Furnivall (English), Wheatstone (Electricity, etc), Slavonic, and Byzantine and Modern Greek collections

LABORATORIES AND MUSEUMS Anat (Hughes Collection), Comp Anat, Bact, Biol, Bot, Chem, Engin, Geol and Mineral, Mat Med, Metall, Pharmacol, Phys (George III Museum), Physiol, Psych, Pub Health, Zool.

DEGREE COURSES in Arts, Science, Laws, Engineering Prelim and Interm. courses in Medicine and Pub Health Day Training College (men only) under the Board of Education Dept for training secondary Teachers (men and women)

College Diploma course in Engineering, ordinarily 3 yrs. The *Associateship*, open to men and women graduates who have attended a prescribed course in Divinity *Certificates* in Palæography, Italian, Hebrew, Spanish, Portuguese, and Russian

THE HOUSEHOLD AND SOCIAL SCIENCE DEPARTMENT (Warden—Miss Lydia Henry, M D) at Campden Hill Road, W 8, continues to be a Department of King's College for Women, though in the main practically separate. It provides full degree courses for the B Sc in H and S Sc Tuition Fees, 45 gs per session Residence from 75 to 93 gs Number of students in 1923, 162

ADVANCED STUDY Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, Naval, Eastern Europe, and Ancient), Slavonic, Spanish, Portuguese, Modern Greek, Bacteriology and Pub Health, and several other Depts of Science.

FEES Tuition per Session, including fees for games, library, and union society Arts, 30 to 37 gs (Psychology Honours course, 50 gs); Science, 35 to 50 gs., Med, 35 to 40 gs., Laws, 18 gs., Engin, 48 to 60 gs.

SCHOLARSHIPS FOR GRADUATES In English 3, aggregate value £145; Science 5, ag. value £73, Med 3, ag. value £60, Engin 2, ag. value £100.

RESIDENCE Two hostels for men (one Theol), and one for (60) women,

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also Q. Mary's Hostel and Annexe in the Household and Social Sc Dept. buildings at Campden Hill with accommodation for 130

PUBLICATIONS *Calendar*, 4s 6d post free, *K.C. Review*.

THE YEAR 1922-23

BENEFACTIONS E L Gardner, £100 for Theol Hostel, Mrs M Oakley £200, Anglo-Russian Literary Soc, transfer of its library, 1300 vols, to School of Slavonic studies, numerous gifts of machinery for scientific departments by engineering and other firms, grant from Polish Govt in aid of teaching of Polish

NEW BUILDINGS New wing increasing accommodation of men's hostel which has now rooms for 80 Plans were prepared to show possible lay-out of a new college on part of the Univ's Bloomsbury site

OTHER NEW DEVELOPMENTS Post-graduation work increased largely, especially in Chemistry Dept Dental Dept instituted in co-operation with King's Coll Hosp Med Sch Monetary value of entrance scholarships increased and length of tenure extended Scheme for offering to Science, Med and Engin students during first year opportunity of practice in writing English essays on subjects of general character and importance A certificate in Italian was instituted *Slavonic Review* started

RELATIONS WITH OTHER UNIVS, etc Sir I Gollancz and A W Reed, who represented the College at the British-American Conference on English in Columbia Univ, lectured in the U S Prof Newton lectured in Czecho-Slovakia on "The Government of the British Empire" Prof Dyboski of Cracow lectured for the School of Slavonic studies A scientific novelties exhibition in aid of London Hospls was held in the College

PUBLIC LECTURES The main courses were on "Foreign Influences on British History," "Social and Political Ideas of some great Mediæval Thinkers," "Some Aspects of Natural Philosophy," "Tercentenary of Publication of First Shakespeare Folio," "History of Art"

DEATHS Sir A K Rollet, Hon R C Parsons

RESIGNATIONS Alexr Siemens, Hon Eleanor M Plumer (succeeded by Miss A E Levett from St Hilda's Hall, Oxford), Prof Halliburton (elected Emeritus Prof), Prof Walters, B E R Turner, P G Thomas, Miss Eileen Power Dr Oeconomos, A Page

STUDENTS Full-time undergraduates in the Faculty of Arts, 339 (including women—166), Science, 212 (women—51), Med, 285 (w—110), Engin, 158, Theol, 111 Evening students taking course for degree in Arts, 117 (w—51), Science, 63 (w—9), Laws, 26 Graduate students, full-time, 101 (w—10), part-time, 142 (w—38) Other part-time students, 3301 (w—1266) including Banking, 1193, Teachers' classes, 699 (w—520), Intercollegiate, 492. Degrees obtained B A, 110 (w—49), M A, 9 (w—1), LL B, 8, B Sc, 73 (w—11); B Sc Eng, 33

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

VISITOR—H M THE KING

CHAIRMAN OF THE GOVERNING BODY—Rt Hon. LORD BUCKMASTER.

RECTOR—SIR THOMAS HOLLAND, KCSI, KCIE, D.Sc, LL.D.,
FRS

SECRETARY—A GOW, M.A., B.Sc

REGISTRAR—JOHN JONES

PROFESSORS, LECTURERS, ETC., January 1, 1924

Aeronautics

Bairdow, L., CBE, ARCS,

FRS Prof (Aviation)

Shaw, Sir Napier, FRS

Prof (Meteorology)

Lectrs

Richmond, V C, OBE, BSc,

ARCS (Airships)

Wimperis, H E, OBE, MA

Camb, MIEE (Navign)

Farren, W S., MBE, MA

Camb

Lectr (Strength of Structures)

Moss, H, DSc, ARCS, D.I.C

(Engine Design)

Stern, W J., BSc, ARCS,

D.I.C (Engine Design)

Hill, F T, MIAEE (Design)

Brunt, Capt D., MA, BSc

(Meteorology)

Whipple, F J W, MA (Meteorol

Optics)

Astrophysics

Fowler, A, ARCS, F.R.S [Prof.

Bio-Chemistry

Schryver, S B, Ph.D. Leip, D Sc

Prof

Biology, v also Bot., Zool.

Tabor, R J., B.Sc, FLS.

Asst. Prof.

Paine, S G, DSc, FIC

Asst Prof

Cannon, H G, MA Camb

Lectr

..

Lectr

6 Demrs

Botany

Farmer, J B, MA, DSc. Ox,

LLD Edin, FRS Prof

Blackman, V H, MA, Sc D

Camb, FRS

Prof (Plant Physiol and

Path)

Groom, P, MBE, MA Ox and

Camb, DSc Ox, BSc Birm

Prof (Tech of Woods &

Fibres)

Brown, W, DSc

Asst Prof (Plant Path)

4 Research Plant Physiologists

Chemical Technology

Bone, W A, DSc Manc, Ph D

Heid, FRS Prof

Hinchley, J. W., A.R.S.M., FIC.,

MICHEM E

Asst Prof (C Engineering).

Finch, G I, MBE, Dip TC

Zurich Lectr

.....

Lectr (Fuel)

IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY 119

Hancock, W C, B A Camb, F I C
Lectr (*Refr Mat & Silicates*)

Ure, S G M, M A, B Sc Glas,
M I Chem E Lectr

1 Demr

Chemistry

Baker, H Brereton, C B E, M A,
D Sc Ox, F R S Prof

Thorpe, J. F, C B E, D Sc
Manc, Ph D. Heid, F R S

Prof (Organic C)

Philip, J C, O B E, M A, D Sc
Aberd, Ph D. Gott, F R S

Prof (Physical C)

Whiteley, Martha A, O B E,
D Sc, A R C S Asst Prof

Harwood, H F, M Sc Manc,
Ph D Heid Lectr

Eldridge, A A, B Sc, F I C

Lectr

Sugden, J N, B Sc Lectr

Ellingham, H T, B.Sc Lectr

8 Demrs, 1 Asst

*Engineering, Chemical, v Chem
Tech.*

*Engineering, Civil, and Sur-
veying*

Dixon, S M, M A, M Sc, B A I
Dub, C* Prof

Purser, J, B A, B A I Dub,
M Sc Birm, c* Asst Prof

Lectrs

Rice-Oxley, K, A C G I, c*

Wickenden, A F, c*, A R I B A

3 Demrs., 2 Assts

Engineering, Electrical

Fortescue, C L, O B E, M A
Camb, E* Prof

Mallett, E., M Sc (Eng), c*, e*
Asst. Prof

Rushton, A., M Sc. (Tech.) Manc,
e* Lectr

Sims, J W, e*, m* Lectr

Hopkin, D. W, e* Lectr.

Sutton, G. W, B.Sc Lectr.

6 Demrs., 2 Assts.

*Engineering, Mechanical, and
Motive Power*

Dalby, W E, M A Camb, B.Sc.,
C*, M*, F.R.S Prof

Hewson, W, B Sc, A R C S, c*
Asst Prof.

Witchell, E F D, B Sc, A C G I,
M* Asst Prof

Cruickshank, A, M* Asst Prof

Howard, J V, D Sc, m* Lectr

Smith, S L, D Sc, A C G I, m*
Lectr.

Lewitt, E H, B Sc (Eng)

Lectr

Cawley, G M, m*

Dyson, F, B Sc, A C G I Lectr

Collins, W, B Sc, A C G I

Lectr

Demrs 6, Assts 14

Forestry, v Botany

Fuel, v Chemical Technology

*Geology, Mining Geol, and Oil
Tech*

Watts, W W, M A, Sc D Camb,
M Sc Birm, LL D St And,
F R S Prof

Cullis, C G, D Sc, M I M M

Prof (Econ Mineralogy)

Davies, A M, D Sc, A R C S

Asst Prof (Palæont)

Illing, V C, M A Camb

Asst Prof (Oil Tech)

Evans, J W, C B E, D Sc,

LL B, F R S

Lectr (Petrology)

Brammall, A, M Sc, Ph D, D I C

Lectr

Wolf, A Lectr

Milner, H B, M A Camb, D I C

Lectr

6 Demrs.

Mathematics and Mechanics

Whitehead, A N, M A, Sc D
Camb., LL D. St And, F R S

Chief Prof

C*, E*, M*=M.I.C.E., M.I.E.E., M I.Mech.E.; c*, e*, m*=A M I C E, etc

Levy, H, D Sc. Ox, M A, B Sc.
Edin Prof

Klugh, H, D.S C, B.A Camb
Asst Prof

Odell, W. L, A R C S Asst Prof

Sillick, W E G, A R C S, D I C
Asst Prof

Lectrs

Hodgson, T, B A Ox, B Sc

Milner, L G, A R C S

Dickson, T W, B A Ox

Harvey, J, B Sc, A R C S

Kebby, C H, B Sc, A R C S

Reeve, W, A M I C E,

A M I Mech E

12 Demrs, 2 Assts

Metallurgy

Carpenter, H C H, M A Ox,
Ph D Leip, A R S M,

M I M M, F R S Prof

Merrett, W H, A R S M,

M I M M, F I C Asst Prof

Courtman, E O, A R S M
Asst Prof

Drinkwater, B W, B Sc,
A R S M, A R C S, F I C

Lectr

Chapple, H. M, A R S M Lectr
3 Demrs

Meteorology, v Aero

Mineralogy, v. Geol

Mining, v also Geol [Prof

Truscott, S J., A R S M, M I M M

Cooke, L. H, A R S M, M I M M
Prof (Mine Surveying)

Holman, B. W, O.B.E, A.R.S M,
A I M M Asst Prof

Dolan, A. A, M I M M Lectr.

Habberjam, C, A I M M. Lectr

Webb, A H, M I M M Lectr

Powell, W. H, A M I C E,
A M I Mech E Lectr

Martin, Prof C J, M B, D Sc,
F R S

Lectr (Tropical Hygiene).

Oil, v Geol

*Optical Engineering and Applied
Optics* [Prof

Cheshire, F J, C B E, A R C S

Conrady, A E, A R C S

Prof (O Design)

Pollard, A F C, A R C S, F I P.,
A M I E E

Prof (O E (Mech) and
Instrument Design)

Martin, L C, D Sc, A R C S,
D I C Lectr

1 Demr.

Petrology, v Geol.

Physics, v also Astrophysics

Callendar, H L, C B E, M A
Camb, LL D McG, F R S

Prof.

Rankine, A O, O B E, D Sc

Prof.

Foisyth, R W, A R C S

Asst Prof

Dingle, H, B Sc, A R C S

Asst Prof

Lectrs.

Brinkworth, H, M Sc, A R C S.

Bell, Mary, B Sc, A R C S

Gregory, H S, B Sc, A R C S.

10 Demrs

Refractory Materials and Silicates, v Chemical Tech

Woods and Fibres, v Botany

Zoology, v also Biol [Prof

MacBride, E W, M A Camb,
LL D McG, D Sc, F R S

Lefroy, H Maxwell, M A Camb

Prof (Entomology)

GENERAL INFORMATION

Address—Imperial Institute Rd, S Kensington, S.W 7.

Telegrams—Scientist, Southkens, London. Telephone—6444 Kensington.

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most

IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY 121

advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges

The Royal College of Science

The Royal School of Mines

The City and Guilds (Engineering) College

The total staff exceeds 200 For the purpose of internal degrees of the Univ the College is a School of the University in Science and Engineering The buildings occupy about 8 acres and cost with equipment over £1,000,000.

LIBRARIES, ETC The Library of the Science Museum is available for the use of Students, and each Dept is provided with a special Library, **RESEARCH LABORATORIES**, and full facilities for advanced study

ADMISSION The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed, the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence (i) *RCS* and *RSM* A candidate for admission must be as a rule not less than 17 yrs of age. For admission to 1st yr. Assoc courses an Entrance examn in Maths and Mechanics, Chem Physics, Engl, French or German or Spanish or Italian, and Geometrical or Freehand Drawing must be passed, unless equivalent examns have been passed elsewhere (The Matricn examn. of the Univ is considered equivalent provided the student has passed in "More Advanced Maths" and "Elem Mechanics," and in the other subjects prescribed for the Entrance examn) Candidates for admission to a 2nd yr must pass the College Entrance examn in more advanced Maths, Mechanics, Chem, and Physics, unless equivalent examns have been passed elsewhere. For admission to a 3rd yr candidates must have reached a standard correspondingly higher (ii) *City and Guilds* A candidate desiring to enter for the 1st yr of the Assoc'ship course must be at least 16 yrs of age and must pass a special Entrance examn in Maths and Mechanics, Mech. Drawing, Phys, Chem, Engl, and French or German or Italian or Spanish, unless he has passed the Matricn examn of the Univ, taking certain specified subjects, including More Advanced Maths. For admission to the 2nd yr course candidates must take the more advanced papers and the practical tests in the College examn, or they must have passed the Intern B Sc (Eng) in the Univ in Maths, Pure and Applied, Heat, Electricity and Magnetism, Engineering, Drawing and Design, and Chemistry. Candidates for admission to advanced or research work in the *RCS*, *RSM*, or *C. and G.* are admitted on satisfying the Coll authorities as to their previous training.

DIPLOMA AND OTHER COURSES Associateship of each of the 3 associated Colls., 3 or 4 yrs, specially arranged courses in Advanced Science or Technology, 1 or more yrs, leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

FEES. Entrance, £2; Tuition, per session, for full-time Associateship or Post-Associateship courses of study, £62 10s. (including Union fees), for less than full-time courses, *pro rata*, for Research Work the fee is £22 10s per session (including Union fees), but an additional charge may be made for expensive apparatus or chemicals.

SCHOLARSHIPS for post-grad. work Beat Fellowship for Research, v. Appendix XXIV. (iv), £300 Plummer Fellowship in Pathology, £100 in Botany, and many others (v. *Calendar*)

AFFILIATION, ETC. The Univ. of Sheffield is associated with the Coll for Advanced Studies in the Metallurgy of Iron and Steel Students of Huddersfield Technical Coll may be admitted, subject to certain conditions, without examn.

PUBLICATIONS. *Calendar*, *Annual Report*, with list of memoirs pubd by members of the Coll

THE YEAR 1922-23

BENEFACTIONS, ETC Clothworkers' Company, £3000 a year for five years for the development of the City and Guilds (Engineering) College, grant from the British Empire Cotton Growing Corporation of £1000 a year for five years to be devoted specially to Plant Physiology and Pathology.

DIPLOMAS GRANTED A R C S, 90, A R S M, 53, A C G I, 99, D I C, 80. Total, 322, including 8 women

STUDENTS Preparing for the College Diplomas, 834, including 10 women (Chem., 160, Engin., 409; Mining, 76, Metall, 36, Biol, 45, Physics, 36, Mining Geol, 18, Oil Tech, 43, Optical Engin, 11), post-diploma and research, 247, including 24 women (Biol, 50, Chem, 61, Chem Tech, 23, Aeronautics, 36), occasional, 45 Also 41 research workers Full-time students from abroad, 105, India, 21, S Africa, 11, other parts of the Empire, 26, Russia, 15, China, 5, Roumania, 4, other foreign countries, 23.

EAST LONDON COLLEGE

CHAIRMAN OF THE COLLEGE COUNCIL—Rt Hon Sir Wm G ELLISON-
MACARTNEY, K C M G
PRINCIPAL—J L S HATTON, M A
REGISTRAR—E. J WIGNALL

PROFESSORS, LECTURERS, ETC., January 1, 1924

Aeronautical Engineering
Piercy, N A V, D Sc (Eng)

Lectr.

Botany
Fritch, F. E, Ph D Mun, D Sc *
Bracher, Rose, M Sc Bris Lectr
Haines, F M, B Sc Lectr

Chemistry
Partington, J R, M B E, D Sc Manc Prof
Turner, E E, M A Camb, D Sc Lectr
Stratton, Kathleen, M Sc Lectr
Patterson, W H, M Sc Manc Lectr
Bury, F. W, M Sc. Manc Lectr
Howe, A B, M Sc Lectr

Classics
Earp, F R, M A Camb *
Mozley, J. H, M A Camb Lectr

Engineering, Civil and Mechanical, v also Aero
Lamb, E H, D S C, M Sc Manc, A M I C E Prof
Higgins, A L., M Sc Belf, A M I C E Lectr (Civil E)
Wells, G J, A M I C E, M I M E Lectr (Mech E)
Wedgwood, G A, M Sc Belf. Lectr.

1 Demr, 2 Assts.

Engineering, Electrical [*]
MacGregor-Morris, J. T., M I E. E.
John, W. J, D I C, A M I E E. Lectr.

Bradfield, R, B A Camb, A. M I C E Lectr.

English Lang and Lit
Lee, Sir Sidney, D Litt Ox, LL D Glas, Litt D Manc, F. B A Prof
Williams, O T, M A Wales Lectr

Davis, B E C, B A Ox, M A Lectr

French Lang and Lit.
Perry, Mrs M *
Déchamps, J, D Phil, D ès L Liège Lectr
Halket, Elz C, M A Lectr

Geography and Geology
Smith, H G, B Sc, A R C S Lectr
Taylor, Eva G. R, B Sc Lectr

German Lang and Lit
Dunstan, A C, Ph D König, B A Lectr

History, Modern
Clarke, F, M A Ox *
Penson, Lillian M, M A, Ph D Lectr.

Mathematics, Pure and Applied
The Principal *
Le Beau, G S, M A Ox.
Depy Hd of Dept
Churchill, W F. S, M A. Ox
Asst Prof (Applied M)
Cooper, F T, B Sc Lectr.
Soal, S G, M A Lectr.
Green, S. L., M. Sc Lectr

* Head of Department.

<i>Physics</i>	[Prof	<i>Spanish</i>	
Lees, C H , D Sc Manc , F R S		Barragán, J V.	Lectr.
Ferguson, A , M A Wales, D Sc.			
	Lectr	<i>Zoology</i>	
Calthrop, J E , B A. Camb , B.Sc		Mudge, G P , A R C S	
	Lectr		Head of Dept
Gauss, C H J , B Sc	Lectr	Cunningham, J T , M A Ox	
Andrews, J P , B Sc	Lectr		Lectr

GENERAL INFORMATION

Address—Mile End Rd , E 1 Telephone—3384 East

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Co , and representatives of the L C C , the Univ , and the Staff A School of the Univ in Arts, Science, and Engin Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim Med Examn Special Research LABORATORIES in Physics, Chem , Elec Engin Degree courses in Arts, Science, Engin (including Aeronautical Engin), and Med Fee per session, £22 2s Hostel for women at Snaresbrook , residence and board from 25s a week *Calendar*, 1s. post free *College Magazine*, Old Students' Association

THE YEAR 1922-23 Students internal (Univ of London), 535, including 165 women , others, chiefly evening, 43 (14 women) Degrees obtained B A , 25 , B Sc , 63 , B Sc. (Engin), 31

BIRKBECK COLLEGE

PRESIDENT OF THE COLLEGE—Rt Hon VISCOUNT HALDANE OF CLOAN,
O M , K T , F R S

CHAIRMAN OF THE GOVERNORS—Sir E COOPER PERRY, M A , M D ,
F R C P

PRINCIPAL—G SENTER, D Sc , Ph D , F I C

SECRETARY—G F TROUP HORNE, B A

LIBRARIAN—M C HILDYARD, B A

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Botany</i>		<i>French Lang and Lit</i>	
Gwynne-Vaughan, Dame Helen,		Kastner, V E , B ès L Paris	*
D B E , LL D Glas , D Sc ,		Stone, Louise W , M A	
F L S	Prof	Lectr (Romance Philol)	
Barnes, B F , B Sc	Lectr	Gould, Marjorie, B A	Lectr
<i>Chemistry</i>		<i>Geography</i> [Prof	
The Principal, Ph D Leip , D Sc ,		Unstead, J F , M A Camb , D Sc	
F I C	*	Savory, Gundred H , B A	Lectr
Barrow, F , M Sc Birm , Ph D		Taylor, Eva G R , B Sc	Lectr
Stras	Assoc *	<i>Geology</i>	
Sugden, S , M Sc , A R C S , A I C		Davies, G MacD , M Sc	*
	Lectr	Spath, L F , D Sc	
Myddleton, W W , D Sc Belf		Lectr (G and Geog)	
	Lectr	<i>German</i>	
Thorneycroft, F J , B Sc Birm		Bithell, J , M A Manc	Reader *
	Lectr	<i>History</i> [Reader *	
i Demr		Jones, Arthur, M A Manc	
<i>Classics and Ancient History</i>		Penson, Lillian M , B A , Ph D	
Wright, F A , M A Camb	*	Lectr	
Marshall, F H , M A Camb		<i>Italian</i>	
	Reader	Crespi, A , D Lett Padua	Lectr
<i>Economics</i>		<i>Law</i>	
Guillebaud, C W , M A Camb		Hurst, G H J (v p 153)	*
	Lectr.	O'Malley, B L A , B A Camb	
<i>English Lang and Lit</i>		Lectr (Roman L , Hist	
Lobban, J. H , M A Aberd	*	of English L)	
Daunt, B Marjorie		Welford, W B , M A Camb	
	Lectr (E Lang)	Lectr (Jurispr , Crim	
Mackenzie, Agnes M , M A Aberd		L , Merc L , Torts)	
	Lectr		

* Head of Dept

<i>Mathematics, Pure and Applied</i>		<i>Physics</i>	[Prof
Smart, E. H., M A Camb	*	Griffiths, A., D Sc Manc , A R C S	
Coates, C V, M A Camb	Lectr	Simons, L, D Sc	Reader
Fox, C, M A Camb	Lectr	Clack, B W., M Sc, Ph D	Lectr.
Ball, A E, B A Camb	Lectr	Nettleton, H R, D Sc	Lond.
<i>Philosophy, Psychology, and Logic</i>		<i>Zoology</i>	[Reader *
Burns, C Dehsle, M A Camb		Jackson, H G, M Sc. Liv, F Z S.	
		Low, J W., B Sc Edin, F Z S.	
			Lectr
	Lectr.	Spaul, E A, B Sc., F Z S	Lectr

* Head of Dept.

GENERAL INFORMATION

Address—Bream's Buildings, E.C 4. Telephone—2245 Holborn.

Founded 1823 by Dr George Birkbeck " for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge " A School of the Univ in Arts and Science for evening and part-time students for 5 yrs from Oct 1920 *Library*. 10,000 vols, including special Science Department Complete *courses* for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog and for the Inst of Chem examns, and matricn courses *Fees*, including subs to Students' Union Arts, £7 10s., Science, £9 Postgrad work (Registration Fee), £2 *Publications Calendar*, 1s, *Annual Report*; *Lodestone* (Students, terminally) YFAR 1922-23 Professorship conferred on Dr. Griffiths, Head of the Physics Dept, Readership on F H Marshall (Classics) *Deaths* G M Norris (Principal) *Students* internal, 626, others 440, men, 641, women, 425 Degrees obtained B.A 27 (women, 12), B.Sc., 44 (women—7), higher, 7 (women—2)

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

CHAIRMAN OF COURT OF GOVERNORS—SIR ARTHUR STEEL-MAITLAND, Bart, M P

VICE-CHAIRMAN—HON SIR JOHN COCKBURN, K C M G, M D

DIRECTOR—SIR WM H. BEVERIDGE, K C.B, M A, B C L Ox, LL D

SECRETARY—MRS MAIR, M.A. LIBRARIAN—B M HEADICAR

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Accountancy and Business Methods</i> , v also Com	Shanahan, E. W., D Sc (Econ) (S)
Dicksee, L. R., M Com Birm, F C A	Smith, Sir Hubert Llewellyn, G C B (<i>Industrial Art</i>) (S)
de Paula, F R M, O B E, F C A (S)	<i>Economics</i> , v also Indian E and Russia
Polwarth, J B, A S A A (S)	The Director
<i>Anthropology, Social</i> , v also Ethnology	Prof (Descriptive E and Public Admn)
Malinowski, B., Ph D Cracow, D Sc Reader	Cannan, E., M A Ox, LL D Glas Prof (Pol Economy)
<i>Art, Industrial</i> , v Commerce	Farbman, M S (S)
<i>Banking and Currency</i> , v also Commerce	Heaton, H., D Litt (S)
Gregory, T E., D Sc (Econ) Cassel Reader	3 Assts
<i>Commerce and Industry</i> , v also Law, Logic, Transport	<i>English</i>
Sargent, A J., M A Ox Prof	Reed, A W, M A
Dalton, Hugh, M A Camb, D Sc (Econ) (Tutor for <i>Journalism</i> courses) Cassel Reader	Reader (and at King's Coll)
Gregory, T E., D Sc (Econ) Cassel Reader	1 Asst
Forrester, R B., M.A Edin, M Com. Manc Lectr	<i>Ethnology</i>
Jones, L Rodwell, B Sc Lectr	Seligman, C G., M D, F R C P, F R S Prof
Drummond Smith, J, O B E, M A Aberd Lectr	Aitken, Mrs, M A Ox (S)
Piercy, W., C B E, B Sc (Econ) (S)	Joyce, T. A., O B E (S)
	<i>Finance</i> , v Politics
	<i>French</i> , v Modern Languages
	<i>French History and Institutions</i>
	Vaucher, P, L ès L Paris Prof

(S) = Special Lectr, not on the School Staff

Geography, v also Commerce
Mackinder, Sir Halford J, M A.

Ox Prof
Ormsby, Hilda, B Sc (Econ)

Lectr
Jones, L Rodwell, B Sc Lectr
Robinson, L G, M A Ox Lectr
1 Asst

German, v. Modern Languages

History, Economic, v also
Politics

Knowles, Lilian, Litt D Dub,
M A, LL M Camb Prot

Hall, Hubert, Litt D Camb
Reader (Palæog and E H)

Tawney, R H, B A Ox Reader
Power, Eileen E, M A, D Litt
Lectr

2 Assts

Indian Economics

Keatinge, G, C I E (S)
Slater, Gilbert, M A Camb, D Sc
(Econ) (S)

Journalism, v Commerce

Law, v p 153

Keen, F N, LL B, Barr-at-Law
(S) (Comm & Indust L)

*Logic, Psychology, and Philo-
sophy*

Wolf, A, M A Camb, D Lit.
Prof (Logic & Scientific
Method).

Lectrs on Industrial Psycho-
logy

Burt, Cyril, M A (S)
Farmer, Eric, M A. (S)
Miles, G H, D Sc (S)
Myers, C S, C B E, F R S, M A,
M D, Sc D Camb (S)

Modern Languages *

Earle, Edith Lectr (French)
Haltenhoff, A G.
Lectr (German)

*Politics and Public Administra-
tion*

Webb, Right Hon Sidney, LL B,
M P Prof (Pub Admn and
History).

Laski, H J, M A Ox Reader
Lees-Smith, H B, M A Ox, M P
Lectr (Pub Admn)

Higgs, H, C B
Lectr (Pub Finance) (S)

Wallas, Graham, M A Ox, Litt D
Manc

Lectr (Pol Science) (S)

Zimmern, A E, M A Ox

Lectr (Pol Science) (S).

2 Assts

*Russia, Institutions and Eco-
nomics of*

Meyendorff, A Reader

Shipping, v Transport

*Social Science and Administra-
tion*

Lloyd, C M, M A Ox, Barr-at-
Law Head of Dept

Christie, Mary E Lectr

Cullis, Prof Winifred C, D Sc
(Physiology) (S)

Marshall, A C, M A, LL B
(Welfare Work) (S)

3 Assts

Sociology, v. also Anthropology

Hobhouse, L T, M A Ox,
D Lit Durh, LL D St And.

Martin-White Prof

Westermarck, E A, Ph D Hel-
sing, LL D. Aberd

Martin-White Prof.

Ginsberg, Morris, M A.

Statistics

Bowley, A L, Sc D Camb.,
F B A Prof

Reader (to be apptd), 4 Assts

Transport, v also Law

Stephenson, W Tetley, B A
Camb Cassel Reader.

(S)=Special Lectr, not on the School Staff

* Preparatory for B Sc (Econ.): language courses for B Com are provided chiefly at King's and Univ Colls.

Abell, Sir Westcott, K B E , Burt, P (S).
 M Eng , M I C.E , M I N A . Pringle, W H , M A Edin , LL B
 (Shipping) (S) Glas , Barr -at-Law (S)

GENERAL INFORMATION

Address—Houghton St , Aldwych, W.C 2
 Telegrams—" Poleconics, Estrand " Telephone 5671 Holborn.

Founded 1895 A School of the Univ recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws and of Arts (in certain subjects only)

Matriculated students are registered as Internal students of the Univ with a view to the B Sc Econ , B Com , LL B , and B A (with Honours in Geog , Sociology, Anthropol , or History, or the Pass degree with Geog), or to Higher degrees

The lectures and classes at the School are open also to those who have not matriculated and do not wish to pursue a full University course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work To all these the School affords, by day or evening, the opportunity of specialized or advanced study on particular topics

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise, and the British Library of Political Science, which is maintained by the School, is open not only to those who are taking courses at the School, but, by permission of the Director, to any person desiring to utilize it for research or consultation The Fry Library of International Law is housed at the School The Ratan Tata Foundation for research into social conditions is administered by the School, which maintains in connexion with it a Dept of Social Science and Administration

General Composition Fee for the session, 21 gs (including Students' Union) Playing fields at Malden are available for members of the Students' Union

Research Studentships, £175, in addition to fees, are offered from time to time

Publications *Studies in Econ and Pol Sc* , *Economica*, thrice annually, 2s 6d (T Fisher Unwin, Ltd) , *Class Market Review* (Students, once a term).

The London and Cambridge Economic Service of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ of Cambridge and Harvard Univ

STUDENTS, 1922-23 Graduates preparing for higher degrees, 64 (including women—17) , other regular students, 779 (women—201) ; occasional, 1523 (w—391) Degrees obtained B Sc (Econ) , 49 (w—10) , B Com , 29 (w—1) , M.Sc , 10 (w.—2) ; Ph D (Econ) , 6 , D Sc. (Econ) , 1

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE

CHAIRMAN OF GOVERNING BODY—Rt Hon LAURENCE HARDY, P C ,
M A , D L

PRINCIPAL—R M WILSON, B.Sc (Agric)

SECRETARY AND BURSAR—C FERGUSON

TEACHING AND RESEARCH AND ADVISORY STAFF,
January 1, 1924

Agriculture

The Principal

4 Assts

Agr. Engineering

Davies, C , T D A

Agr Law, Forestry, Book-keep- ing, Cost Accounting, Sur- veying, and Building Constn

Haines, A H , P A S I

2 Assts

Agr Zoology

Duffield, C. A. W

Botany

Parkinson, S T , B Sc

Pearl, R T , B Sc

Chemistry

Harwood, S D F , M A , F I C

Evans, L W , B Sc , A I C

Burgess, A H , B Sc (Agric)

Goodwin, W , M Sc , Ph D

Economics

Wyllie, J , B Sc (Agric) , N D A ,
N D D

Entomology

Theobald, F V , M A Camb

Fruit-growing and Market Gar- dening

Miskin, W

Geology and Zoology

Brade-Birks, S G , M Sc Manc

Ironwork, Farriery, and Wood- work

3 Instrs

Mycology

Salmon, E S , F L S

Ware, W M , M Sc

Poultry

Rhodes, F W , D S O.

Veterinary Science and Bacterio- logy

Cave, T W , F R C V S

GENERAL INFORMATION

Address—Wye, Kent Telephone—r Wye

Founded 1894. A School of the Univ in Science (Agric).

LIBRARY, 3500 vols LABORATORIES Chem. Research, Biol (35 places),
Bact , Entom , Vet Farm, 460 acres. Forestry demonstration plantation

COURSES qualify for B Sc. (Agric), B Sc (Hort), C D A (Wye) (3 yrs),
C D H. (Wye) (3 yrs), N D A , P A S I , and are suitable preparation for
farming at home or abroad, research work, or such posts as lecturer in agric ,
agric organizer and administrator, estate manager. A large percentage of
past students of the College hold such posts at present. Extension Lectures,
summer courses for Elem. School Teachers, short courses for farmers' sons
FEES, inclusive for board, lodging, and tuition British Subjects, £150 p a ,
others, £180 p a Tuition only—British subjects, £85; others, £115 p a .
Reduced fees for ratepayers of Kent, Surrey, and W. Sussex. Number of
Students (1922-23), 154; degrees obtained, 7.

LONDON DAY TRAINING COLLEGE

CHAIRMAN OF COUNCIL—SIR GREGORY FOSTER, B.A., Ph.D.

STAFF, January 1, 1924

Nunn, T. Percy, M.A., D.Sc.	Fairgrieve, J., M.A. Ox., B.A.
Principal and Prof. of	Hague, J.C., M.A. Vict.
Education	von Wyss, Clotilde, F.L.S.
Punnett, Margaret, B.A.	4 Instrs. in Art and Handwork,
Vice-Principal	1 in Music, 2 in Physical
Lecturers and Tutors	Training 9 Supervisors of
Bell, J.J., M.A. Ox. and Liv.	School Practice

GENERAL INFORMATION

Address—Southampton Row, W.C. 1

Founded 1902. The Chancellor and Vice-Chancellor of the Univ. and Chairmen of the L.C.C. and London Educn. Committee are *ex-officio* members of the College Council. A School of the Univ. in Pedagogy.

Schools under the L.C.C. and others are used for practical instruction, and 3 Demonstration Schools are attached to the Coll.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C. 2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs' course so as to combine B.A., B.Sc., or B.Sc. Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to Theory, etc., of Educn. and obtain the Univ. diploma. *Fees* London students—*nil*, others—for a year spent entirely at the Coll. for a professional course, £40. *Scholarships* Free place in 4 yrs' and 1 yr. courses (for students ordinarily resident within the County of London). London students eligible for senior L.C.C. Scholps. The *Londiman Review* is published by an old students' assocn. Number of internal students (1922-23), 210, including 112 women.

SCHOOL OF ORIENTAL STUDIES

PATRON—H M THE KING

VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION

CHAIRMAN—SIR JOHN P HEWETT, G C S I, K B E, C I E, M P.

DIRECTOR—SIR E DENISON ROSS, C I E, Ph D

DEAN—C O BLAGDEN, M A

SECRETARY—MISS C I. CLEGG

PROFESSORS, LECTURERS, ETC, January 1, 1924

Amharic and Ethiopic

Athull, Major L F I
Lectr * (Amh)
Weld-Blundell, H, B Litt Ox
Lectr *
Harden, Rev J M, M A, D D,
I.L D Lectr * (Eth)
Hirschfield, H, Ph D
Lectr * (Eth)

Arabic

Arnold, Sir T W, C I E, Litt D,
M A Camb
Prof (Classical A)
Abd el Kader, Sheikh H
Lectr (Egyptian A)
Sefi, A Lectr (Syrian & Class
A).
Gibb, H A R, M A
Lectr (Classical A).
Fulton, A S, M A
Lectr * (Classical A)

Armenian

Tonapetean, P Lectr *

Assamese and Khasi

Gurdon, Lt-Col P R T, C S I
Lectr *

Bengali

Page, W S, O B E, B A, B D
St And Reader

Burmese

Hough, A L Lectr

Chinese

Chang, P H Lectr (Mandarin)
Edwards, E D
Lectr (Mandarin)
Rees, W H, D D Reader
Hopkins, L C
Lectr * (C Palæog)
Steele, J, M A, D Lit
Lectr * (Amoy & Swatow)

Gujarati

Doderet, W, M A Camb, I C S
Lectr

Hausa

Gill, J W., O B E Lectr

Hebrew, Modern

Doniach, A S, B Litt Ox Lectr

Hindustani

Bailey, T G, M A, B D, D Lit
Edin Reader (Urdu & H)
Leeson, G E
Lectr (Urdu & Hindi)
Palmer, T G F Lectr
Chopra, G L, Ph D
Lectr * (Urdu)

History and Culture of British Dominions in Asia, especially India, v also Sansk

Dodwell, H H, M A Ox Prof

Japanese

Isemonger, Commdr N E, R.N. [Lectr

* On panel of additional lectrs, not on regular staff.

Yoshitake, S	Lectr	<i>Polynesian, Melanesian, Micro-</i>	
McGovern, W M , D Phil	Ox	<i>nesian, and Papuan</i>	
	Lectr *	Ray, S H , M A	Lectr *
Mere, G	Lectr *	<i>Sanskrit</i>	
<i>Kanarese</i>		Turner, R L , M A	Prof.
Edwardes, S M , C S I , C V O		Barnett, L D , M A ,	Litt D
	Lectr *	Manc , M A Camb	
<i>Law, Indian</i>		Lectr (S & Anc Indian	
Sabonadière, A , I C S.	Lectr	History)	
<i>Malay</i>		Allan, J , M A	
Blagden, C O , M A Ox	Reader	Lectr * (Oriental Palæog)	
<i>Marathi</i>		<i>Shan</i>	
Kanhere, S G	Lectr	Inman, Capt H J	Lectr *
<i>Pali</i>		<i>Swahili and Bantu</i>	
Davids, Mrs C A R , D Lit ,		Weiner, Alice	Prof
M A	Lectr	<i>Tamil and Telugu</i>	
<i>Persian</i>		Wickremasinghe, M de Z , M A.	
Khan, G H D	Lectr	Ox	Reader
Ross, Sir E D , C I E , Ph D		<i>Turkish</i>	
Stras	Prof	Topalian, S	Lectr
Wilson, C E , B A	Lectr	Ali Riza Bey	Lectr
Philpott, Lt -Col D C	Lectr *		

* On panel of additional lectrs , not on regular staff

GENERAL INFORMATION

Address—Finsbury Circus, E C 2

Established by Royal Charter, 1916 A School of the Univ in Arts
Library, 100,000 vols *Fees* 4 to 20 gs per session , I C S probationers,
 30 gs *Scholarships* (Gilchrist), 2 of £50 in Turkish and Chinese Teaching
 provided in more than 45 languages and in the history, religions, and customs
 of Oriental and African countries Special facilities for research work *Number*
of Students, 403

BEDFORD COLLEGE FOR WOMEN

VISITOR—Rt Hon VISCOUNT HALDANE OF CLOAN, O.M, K T, F R S.

CHAIRMAN OF COUNCIL—SIR WILMOT HERRINGHAM, K C M G., C.B.,
M.D, F R C P.

PRINCIPAL—MISS M J. TUKE, M.A. Dub.

RESIDENT TUTOR—MISS L. C. KEMPSON, M.A. Dub

SECRETARY—MISS O E. MONKHOUSE, M B E., B A

REGISTRAR—MISS E M E. HAYDON, M A

LIBRARIAN—MISS J A PATERSON

PROFESSORS, LECTURERS, ETC, January 1, 1924

Botany [Prof
Jones, W Neilson, M A Camb
Halket, Miss A C, B Sc Lectr
Garside, S, M Sc Manc Lectr

Chemistry, Inorganic and Physical
Spencer, J F, Ph D Bres, D Sc
Liv, F I C

Reader (Physical C)
Crewdson, Miss M S, M Sc Lectr
2 Demrs

Chemistry, Organic
Crompton, Holland, F C S Reader
2 Demrs

Classics [Reader (Greek)
MacGregor, J. M, M A Ox
Tarrant, Miss D, M A Lectr
Williamson, Harold, M A Ox
Prof (Latin)
FitzGerald, Miss K, B A N U I
Lectr
Furness, Miss S M M Lectr
1 Asst (part-time)

Dutch
Geyl, P, Litt D Leyden Prof.
Harting, P, Litt D Utrecht
Reader

*English Language and Mediæval
Lit* [Reader
Thomas, P G, M A Camb and Liv
1 Asst. (part-time)

English Literature
Spurgeon, Miss C, Litt D Mich,
D de l'U Paris Prof
Routh, H V, M A Camb Reader
Covernton, Miss A B Lectr
Ellis-Fermor, Miss U M, M A,
B Litt Ox Lectr

*French Language and Mediæval
Lit* [Sr Lectr
Johnson, Miss F C, M A (Tutor
for *Journalism* courses)
Terry, Mrs, M A Lectr
1 Hon Lectr

French Literature
Eccles, F Y, M A Ox Prof
The Principal Lectr
Legros, René P, M A Edin and
Ox Lectr
1 Asst (part-time)

Geography
Hosgood, Miss B, B A Reader
Gilbert, E. W, B A Ox Jr Lectr
Geology [Reader
Hawkes, L, M Sc Durh, F G S
2 Demrs (1 part-time)

German
Robertson, J G, B Sc, M A.
Glas, Ph D Leip. Prof
Massey, Miss I M, Ph D. Marb.
Reader
Haltenhoff, A G Lectr.

History, Ancient [Reader
Cary, M, M A, D Litt Ox.

History, Modern [Barclay Lectr.

Allen, J. W., M A Ox

Haward, Miss W I Lectr

Tooley, Miss M J, M A Jr Lectr

Italian

Dobelli, S'rina E. B Sr Lectr

1 Asst

Journalism, v French

Mathematics [Prof

Hilton, Harold, M A, D Sc. Ox.

Marshall, J, M A, D Sc St And

Reader

Turner, Miss E M, M A. Lectr

Philosophy

Edgell, Miss B, M A Wales, Ph D

Wurz Reader (Psych)

Hazlitt, Miss V H, M A Lectr

Heslop, Miss M Jr. Lectr

2 Assts (part-time)

Physics

Wilson, W., Ph D Leip, D.Sc.,

F R S. Prof

Saltmarsh, Miss M. O., B.A Dub.

Lectr

2 Demrs

Physiology

Edkins, J. S, M.A., M B, Sc D.

Camb Reader

Edkms, Mrs, M Sc Lectr.

1 Demr

Social Studies

Reid, Mrs Director

Williams, Mrs, B A. Vict Lectr

4 Assts

Zoology

Boulenger, C L, M A Camb,

D Sc Birm, F Z S Prof

2 Demrs

GENERAL INFORMATION

Address—Inner Circle, Regent's Park, N.W.1.

Telephone—Langham 1420.

Principal—Miss Tuke, M A. Secy—Miss Olive E Monkhouse, M B E., B A

Founded 1849 A School of the Univ in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 35,000 volumes Special facilities for Research work in the LABORATORIES (Bact, Bot, Chem, Geol, Physics, Physiol, Psych, and Zool).

Minimum age for admission, 17. Students are prepared for all exams of the Univ of London in Arts and Science In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem and Physiol for the Second M.B. Exam

RESIDENTIAL accommodation for 94 students in the Coll and 108 at hostels. FEES (Inclusive Sessional), for tuition Interm Arts—42 gs; B A.—31 to 46½ gs; M A.—8½ to 15 gs; Interm Science and B.Sc Pass—53 gs; B Sc Hons.—38 to 53 gs; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—76 to 100 gs. Union Society—15s.; Athletic Union—25s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; one (Amy Lady Tate) for research in Arts or Science, £125 p a. for 2 yrs., "F.M.W." Medical, £50, Gilchrist Training, £30 for 1 yr.; Notcutt Travelling Studentship, £200 for session 1925-26.

PUBLICATIONS. *Calendar*, post free, 2s. 6d.

STUDENTS (1922-23) preparing for B A, 290; B.Sc., 182; Dip.Ped, 12; Dip.Geog., 3; Dip Journalism, 8; 2nd M B., 3; M.A., 20; M.Sc, 5; Social Studies, 59, occasional, 22. Degrees obtained B A., 57, B Sc, 30, M.A, 6, M Sc, 6, Ph.D., 1.

ROYAL HOLLOWAY COLLEGE FOR WOMEN

CHAIRMAN OF THE GOVERNORS—P E. MATHESON, M A

PRINCIPAL—MISS E C HIGGINS, B A.

SECRETARY—MISS U R DOLLING LIBRARIAN—MISS E E. LOOKER,
B A

PROFESSORS, LECTURERS, ETC., January 1, 1924

Botany [Sr Lectr
Blackwell, Miss E M, M Sc Liv
Light, Miss K E, B Sc

Asst Lectr & Demr

Chemistry
Moore, T S, M A Ox Prof
Boyle, Mary, D Sc Lectr & Demr
i Asst Demr

Classics
Sleeman, J H, M A Prof
Taylor, Margaret E J, M A Dub
Sr Lectr
Westaway, Miss K. M, M A,
D Lit Lectr

English [Sr Lectr
Block, Katharine S, M A Dub
Willcock, Gladys D, M A Lectr
Robertson, Miss A J, M A
Asst Lectr

French [Sr Lectr
Honey, Margaret E D, M A
McWilliam, Miss N, M A. Edin
Lectr
Wilson, Miss C. I, M A., Ph D.
Asst Lectr
Guillaume, Mlle G. (Conversation)
Assistante.

German
Delp, Wilhelmina E Sr Lectr
Richey, Margaret, M A
Asst Lectr

History [Prof
Johnstone, Hilda, M A Manc
Powell, Miss I. G, M A Lectr

Mathematics
Jolliffe, A E, M A Ox. Prof
Rowell, Ethel M Sr Lectr
Pick, Marion, M A Lectr.
Higgins, Ellen C, B A Lectr

Physics
Horton, F, Sc D Camb, M Sc
Birm, D Sc, F R S Prof
Davies, Ann C, D Sc
Lectr. & Demr
i Asst Demr.

Art
Drawing and Painting
Carey, C W Teacher

Music
Barker, Miss S M
Lectr & Director
4 Teachers

GENERAL INFORMATION

Address—Englefield Green, Surrey Telephone—114 Egham

Opened in 1886 19 miles from London. A School of the Univ in Arts and Science LIBRARY, 15,000 vols LABORATORIES Bot, Chem, Physics Botanic Gardens—area of grounds, 95 acres Residential accommodation for 196 Courses for Bachelorship and Higher degrees in Arts and Science Inclusive FEES £135 a yr. Post-graduate studentships, 3 or 4 of £40 each, open to students of the Coll only PUBLICATIONS *Calendar*, 2s post free.

STUDENTS (1922-23), 196, degrees obtained B A, 43, B Sc., 19, Ph D., 3, D Sc, 1

WESTFIELD COLLEGE, HAMPSTEAD

CHAIRMAN OF COUNCIL—SIR THOMAS INSKIP, C B E , K C , M P

PRINCIPAL—MISS E C LODGE, M A Ox , F R Hist S

LECTURERS, January 1, 1924

<i>Botany</i>	[Reader	Ashdown, Miss M
Delf, Miss E M , D Sc , F L S		<i>French</i>
Grubb, Miss V M , M Sc		Turquet, Mme , M A , D Lit
		Reader
<i>Classics</i>		Crosland, Mrs , M A (part-time)
Parker, Miss C E , M A Ox		<i>History</i>
Glover, Miss M R , B A Ox		Skeel, Miss C A J , D Lit ,
Botting, C G , M A Camb (part-time)		F R H S
Norris, J W Coke, M A Ox (part-time)		Martin, Miss E C , M A
		<i>Mathematics, Pure and Applied</i>
<i>English Lang and Lit</i>		Whitby, Miss L J , B A
Warren, Miss K M	Reader	Palmer, Mrs , M A (part-time)

GENERAL INFORMATION

Address—Kidderpore Avenue, Finchley Rd , N W 3
Telephone—734 Hampstead.

Founded in 1882 by Miss Dudin Brown for the higher education of women. The college is undenominational, but the Principal is required to be a member of the Church of England. Situated near the south-west corner of Hampstead Heath; has residential accommodation for 87 students.

A School of the University in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons and Pass) in the Faculty of Science in Bot and Maths are provided, as well as in Arts. Research Studentships are from time to time offered to graduates of this Univ and of other Univs. Two rooms are set aside for Botanical Research. Fees. For tuition from 38 to 53 gs, residence £90 per session. *The Year 1922-23*. Botanical Laboratory enlarged, the Old Students of the Coll gave a scholarship of £75 p a. Students preparing for B A , 87, B Sc , 16, Higher degrees, 7, others, 8. Degrees obtained, B A , 17, B Sc , 3, M A , 2; M Sc , 1.

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS, January 1, 1924

In the following list the names of the Theological Schools are indicated by symbols thus

NEW COLLEGE, HAMPSTEAD (N).	KING'S COLLEGE THEOLOGICAL DEPT (KT)
HACKNEY COLLEGE, HAMPSTEAD (H).	WESLEYAN COLLEGE, RICHMOND (WR)
REGENT'S PARK COLLEGE (R)	ST. JOHN'S HALL, Highbury (J).

Classics

Kilner, G. W., M.A. (N., H., R)

Philosophy, v Theology

Semitic Languages [(J)]

Greenup, A. W., M.A. Dub and Camb., D.D. Ont., Litt D Dub. (Hebrew and Aramaic)

Theology

Andrews, H. T., B.A. Ox., D.D. Aberd (N., H)

Barber, W. T. A., M.A. Camb., D.D. Dub. (WR)

Barry, F. R., D.S.O. (KT)

Box, G. H. (KT)

Davies, W. A., M.A. Ox. and Wales, B.D. (N., H)

Dearmer, P., D.D. Ox (KT)

Garvie, A. E., M.A. Glas and Ox., D.D. Glas (N., H)

Gore, Rt. Rev. C., D.D., D.C.L. Ox., D.D. Edin and Durh., LL.D. Camb and Birm (KT)

Goudge, H. L., M.A., D.D. Ox

(KT)

Green, S. W., M.A. (also recognized in *Philos*) (R)

Greenup, A. W. (v Semitic Languages) (J)

Jenkins, C., M.A. Ox., F.S.A. (KT)

Matthews, W. R., M.A., D.D.

(KT).

Relton, H. M., D.D. (KT)

Robinson, H. W., M.A. Ox. and Edin (R)

Rogers, C. F., M.A. Ox (KT)

Scullard, H. H., M.A. Camb., M.A., D.D. (N., H).

Smith, C. R., B.A., D.D. (WR).

Smith, H., M.A. Camb (J).

Titterton, C. H., M.A., B.D. Edin. (J)

Waterhouse, E. S., M.A., D.D. (WR).

GENERAL INFORMATION

NEW COLLEGE, HAMPSTEAD * (Congregational), Finchley Road, N.W. 3 Principal—A. E. Garvie, M.A., D.D. Secy.—Rev. H. Stames, M.A., B.D.

Founded 1696, reconstituted 1850. *Library*, 30,000 vols. *Fees* for B.D. course for non-ministerial students 30 gs p a *Number of Students* 23

* See note on p. 139.

HACKNEY COLLEGE * (Congregational), Finchley Rd., NW 3. Telephone—3719 Hampstead. Principal—A. E. Garvie, M A, D D Secy—T. R. Grantham, Dorking.

Founded 1803 *Fees* 6 gs p a for each Univ class *Number of Students* 15

REGENT'S PARK COLLEGE * (Baptist), Regent's Park, NW 8 Principal—Rev. H. W. Robinson, M A Secy—Rev. C. M. Hardy, B A

Founded 1810 Students for an Arts degree attend classes at Univ. Coll. *Fees* 2½ gs each class per term *Number of Students* 23.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, WC 2 Telephone—207 and 208 Gerrard. Dean—W. R. Matthews, M A, D D Secy.—S. T. Shovelton, M A

Founded 1829 (v. *supra*, King's College) Complete courses for all Theol. degrees Day and Evg Classes *Fees* for tuition, undergraduate courses, £30 per session, entrance, £6 *Hostel* for students fee for residence, £22 per term. *Number of Internal Students* (1922-23) 37

WESLEYAN COLLEGE, RICHMOND, Surrey Principal—W. T. A. Barber, M A, D D. Secy of Committee—Rev. L. F. Church, B A.

Opened 1843 All students are accepted candidates for Ministry of Wesleyan Methodist Church Residential accommodation for 60. *Number of Students* 52.

ST JOHN'S HALL, Highbury, London, N 5 (Church of England). Principal—A. W. Greenup, M A, D D, Litt D Hon Secy. of Council—Rev. T. J. Pulvertaft, M A

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada Courses for L Th Durham as well as for B D of London *Fees* Entrance, 2 gs., board and tuition, £90 Residential accommodation for 51 students *Number of Students* (1922-23) Preparing for B.D.—3; D D—1, others—45

* These three co-operate, joint classes being held under a common staff of teachers

MEDICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS, January 1, 1924

Note—In the following list the names of the Medical Schools are indicated by symbols thus :

ROYAL ARMY MED COLLEGE (AM)	LONDON (R F.H.) SCH. OF MED.
ST. BART.'S HOSPL. MED. COLL (B)	FOR WOMEN (LW)
CHARING CROSS HOSPL MED SCH (C)	MIDDLESEX HOSPL MED. SCH. (M).
ROYAL DENTAL HOSPL AND LOND	NAVAL MED. SCH., GREENWICH (NM).
SCH. OF DENT. SURG. (D)	ST GEORGE'S HOSPL MED SCH (SG).
GUY'S HOSPL. MED. SCH (G)	ST MARY'S HOSPL. MED SCH (SM)
KING'S COLL HOSPL MED. SCH (KM)	ST THOMAS'S HOSPL MED SCH (T).
LONDON HOSPL MED COLL. (L)	LONDON SCH OF TROP MED (TM)
LISTER INSTITUTE (LI)	UNIV COLL HOSPL MED SCH (UM)
	WESTMINSTER HOSPL MED SCH (W)

and names of certain Hospitals (v p 154) having recognized teachers thus

BETHLEM ROYAL HOSPL (23).	NATIONAL HOSPL FOR PARALYSED
BROMPTON HOSPL FOR CONSUMPTION (24)	AND EPILEPTIC (26)
HOSPL FOR SICK CHILDREN (25)	ROYAL LONDON OPHTHALMIC HOSPL. (27)

Anæsthetics

Braine, C C, F.R.C.S. (C.).
Chaldecott, J H, L.R.C.P. (SM)
Charles, H, M.R.C.S., L.R.C.P. (M)
Cross, W F, M.R.C.S., L.R.C.P. (B)
Gandy, E W, O.B.E., B.A. Camb., M.R.C.S., L.R.C.P. (W)
Gillhatt, Mrs, M.B., B.S. (LW)
Hughes, C H M, M.B., B.S. (KM)
Mennell, Z, M.B. (T)
Probyn-Williams, R J, M.D. Durh. (L)
Shipway, F. E, M.A., M.D., B.Ch. Camb. (G).
Shirley, H J, C.M.G., M.D., F.R.C.S. (UM)

Anatomy

Clark, W E Le G, F.R.C.S. Reader (B)
Frazer, J E S, F.R.C.S. Prof (SM)
Greene, W H C, C.B.E., B.A., M.B., B.Ch. Camb., F.R.C.S. (SM)
Johnston, T B, M.B., Ch.B. Edin. Prof (G)
Keene, Mrs. M F L, M.B., B.S., Reader (LW).
Parsons, F G, F.R.C.S. Prof (T)
Shore, L R, M.A., M.B., B.Ch. Camb. (B)
Wright, W, D.Sc. Bir., M.B., Ch.B. Manc., F.R.C.S. Prof (L)

(B), (C), etc., (23), (24), etc., v *Note* above

Yeates, T. M. B., CM Edin., B Hy,
D P H Durh Prof. (M)

Anatomy, Morbid

Nicholson, G. W. de P., M A, M D
Reader in Morbid Histology (G).

Shattock, S. G., F.R.C.S., F.R.S.
(also recogd in Bact and Path)
Prof. (T)

Spilsbury, B. H., M A, B M,
B Ch Ox (B)

Turnbull, H. M., M A, B Ch, D M
Ox Prof. (L)

Bacteriology, v also Anat, Path

Bulloch, W., M D., C M, LL.D.
Aberd., F.R.S. (recogd in
Path) Goldsmiths' Prof. (L)

Eyre, J. W. H., M D, M S Durh.,
D P H Camb Prof. (G)

Fleming, A., M B., B S, F.R.C.S.
(SM)

Freeman, J., M A, D M, B Ch
Ox. (SM)

Goadby, Sir K. W., K B E,
L R C P, M R C S., L D S.,
D P H Camb (UM).

Gordon, M. H., C.M.G., C B E,
B Sc, D M Ox (B)

Hunt, E. L., D P H Camb, M B,
B S (also in Path) (SG)

Ledingham, J. C. G., C M G,
M A, M B, Ch B, D Sc
Aberd., F.R.S. Prof. (LI)

Petrie, G. F., M D, Ch B Aberd
(LI)

Wright, H. D., B A Tasmania,
M B, Ch B Edin (UM)

Bio-Chemistry, v. also Chem.
Path

Harden, A., D Sc. Manc, Ph D
Erl., F.R.S. Prof. (LI)

Ryffel, J. H., M A, B Ch Camb,
B Sc, F I C (recogd in
Forensic Med) Reader (G)

Biology

Cunnington, W. A., M D. (B.).

Evans, T. J., M A Ox (G, 9)
Leigh-Sharpe, W. H., B Sc (SM)
Mudge, G. P., A R C S. (L, LW)
Rushton, W., A R C S. (T)
Woodger, J. H., B Sc

Reader (M)

Chemistry

Candy, H. C. H., B A, B Sc,
F I C (L)

Gibson, C. S., O B E, M A Ox.
and Camb, B Sc Ox, M Sc
Manc, F I C Prof. (G)

Hurtley, W. H., D Sc
Reader (B)

McKie, Phyllis V., M Sc, Ph D
Wales (B).

Plimmer, R. H. A., D Sc
Prof. (T)

Tuck, W. B., D Sc. Prof. (M).

Widdows, Sybil T., B Sc, F I C.
(LW)

Chemistry, Pathological, v also
Bio-Chem

Dodds, E. C., M.B., B.S. (M)

Wallis, R. L. M., M A, M D
Camb (B)

Willcox, Sir Wm. H., K C I E,
C B, C M G, M D, B Sc,
F R C P, F I C, F C S,
D P H (also in Med and For
Med) (SM).

Chemistry, Physiological

Gardner, J. A., M A Ox, F I C
Reader (LW., SG)

Dental Science, v *infra*

Dermatology [(B)

Adamson, H. G., M.D., F.R.C.P

Barber, H. W., B Ch, M B, M A
Camb, F R C P (G)

Davis, H. D., B A, B M, B Ch
Ox., F R C S. (LW)

Dore, S. E., M A, M D, B Ch
Camb., F.R.C.P. (W, T)

Fox, W. S., M.D., B Ch., M.A
Camb, F.Z.S. (SG)

Gray, A. M. H., CBE, MD,
BS, FRCS, FRCP

(UM).

Little, E. G. G., BA Cape, MD,
FRCP. (SM.)

MacCormac, H (v Med, p 108)
(M)

Macleod, J MacL H, MD,
CM Aberd, MA St. And,
FRCP (C)

Sequeira, J H, M.D., FRCP,
FRCS (L)

Stainer, E, MA, MD, BCh.
Ox, FRCP (T)

Whitfield, A, M.D., FRCP
(KM)

Diseases of Children

Jewesbury, R C, MA, MD Ox,
FRCP. (T)

Diseases of Children & Medicine

Cameron, H C, MA Camb and
Glas, M.D. Camb, FRCP
(G)

Fletcher, H M, MA, MD, BCh
Camb, FRCP (B)

Poynton, F J, MD, FRCP
(25, UM)

Still, G F, M.D., BCh, MA
Camb, FRCP (25, KM)

Thompson, H T, MD, BCh,
MA Camb, BSc, FRCP,
FRCS (25, L)

Thursfield, J H, DM, MA Ox,
FRCP (25, B)

Voelcker, A F, MD, BS,
FRCP (25, M)

Diseases of Children & Surgery

Fairbank, H A. T., OBE, MS,
MB., FRCS, LDS
(25, KM.).

Diseases of Women

Hedley, J. P, MA, MCh, MB
Camb, FRCP, FRCS
(T)

Vaughan - Sawyer, Mrs, D.Sc,
LLD Glas., MD, BS
(LW)

Diseases of Women and Midwifery

Barris, J D, BA, MB, BCh.
Camb, FRCS (B)

Berkeley, G H A C, MA, MD,
MCh Camb, FRCP (M)

Bonney, W F V., MD, MS,
BSc., FRCS. (M)

Chapple, H., MA, MCh, MB
Camb, BSc, FRCS (G).

Donaldson, M, BA, MB, BCh
Camb, FRCS. (B)

Fairbairn, J S, MA, MB, BCh
Ox, FRCP, FRCS (T)

Holland, E, M.D., FRCS,
FRCP. (L)

Luker, S G, MA, MD, BCh
Camb (L)

Playfair, H. J. M, MD, FRCP,
FRCS (KM)

Robinson, G. H D., M.D., BS,
FRCP (W)

Roy, D W, MA, MB, BCh
Camb, FRCS (SG)

Williamson, H, MA, MB, BCh
Camb, FRCP (B)

Forensic Med, v. also Bio-Chem, Chem — Path

Brend, W A, MA Camb, MD,
BSc (C)

Burnford, J M, MB, DPH
(W)

Burrige, H A, MA, MB Dub
(KM)

Jones, G, MA, BM, BCh Ox,
DPH (L)

Lyster, R A, MD, Ch B., BSc
(Pub Health), DPH Birm,
BSc (also in Hyg.) (B)

Smith, E, M.D. (T)

Helminthology

Leiper, R T., DSc, MD, Ch B.
Glas Prot (TM)

Hygiene

[(SM)]

Brincker, J. A. H, BA, MB,
BCh Camb., DPH., FIC

- Brown, R K, M D, B Ch, B A.O.,
B A. R.U.I., D.P.H. (G).
- Carnwath, T, B A, M B, B Ch,
B A O.(R U I), D.P.H.Camb
(T).
- Copeman, S M, M A, M D
Camb, F R S, F R C P,
D P H (W)
- Foulerton, A. G. R, O B.E.,
D P H Camb, F R C S.
(LW.)
- Kenwood, H R, C M G, C M,
M B Edin, F.C.S, D P.H
Chadwick Prof (U)
- Lyster, R A (v Forensic) (B)
- Porter, C, M D, C M, B Sc
Edin (M)
- Simpson, Sir W J R, C M G.,
M.D, C M Aberd., F.R.C P,
D P H Camb. Prof (KM)
- Spitta, H R D, M V.O., M D
Durh, D P.H Camb. (SG.)
- Laryngology, Oto-Rhino-* [(SG)
- Barwell, H S, M B., F.R.C S
- Cheatle, A H, C B E, F R C S
(KM)
- Cleminson, F J, M A, M Ch
Camb, F R C S (M).
- De Santi, P R. W, F R C S (W).
- French, J G., M B, M S, F.R.C S.
(LW)
- Graham, C I., F.R.C S (SM).
- Harmer, W D, M Ch, M B, M A
Camb, F R C S (B)
- Hastings, S, M.S, M B, F R C S
(M)
- Hope, C W M, M D., B S Durh,
F.R.C.S (KM).
- Howarth, W G., M A, M B,
B.Ch Camb, F R C S (T).
- Lack, H. L, M.D, F.R.C S (L).
- Layton, T. B, M.B., M.S, F.R.C.S.
(G).
- Lees, K. A, M.A, M B., B Ch
Camb, F R.C S. (SM)
- Marriage, H. J., M.B., B S,
F R C S (T).
- Mollison, W. M, C B E, M A.
M Ch Camb, F.R.C S (G)
- Muecke, F. F, C B E., M B., B Ch
Adel, F R C S (L)
- Patterson, N, M B, Ch B Edin.,
F R C S (L)
- Rose, F. A., M.A., M.B., B.Ch.
Camb., F.R.C.S. (B.)
- Scott, S. R, M S, M B, F R C S
(B, 26).
- Thomson, Sir St Clair, M D
Lond and Laus, F R C P,
F R C S (KM)
- Tilley, H., B S., M D, F R C S.
(UM).
- Waggett, E. B, M B, B Ch, M A.
Camb (C)
- West, C E., F R C S (B)
- Medicine, v also Chem.—Path,*
Dis of Child, Path, Phar-
macol.
- Abrahams, A, B A, M D, B Ch.
Camb (W.)
- Beaumont, G E, M A, D M Ox,
F R C P, D P H (M)
- Beddard, A P, M D, B.Ch, M A
Camb, F R C P., F.R.C S
(G)
- Bennett, T. I, M D (M)
- Bolton, C, C B E, M D., B S.,
D Sc, F R C P, F R S (UM)
- Bosanquet, W C, M A, D M Ox.,
F.R.C.P. (C, 24)
- Box, C R., M D., B S., B Sc.,
F R.C.P, F.R.C S (T).
- Bradford, Prof Sir J.R., K.C.M.G.,
C.B., C.B.E., M D., D.Sc,
F R C P, F R S. (UM)
- Branson, W. P. S., C.B.E., M.D.,
B.Ch, B.A. Camb., F.R.C.P.
(LW.)
- Briscoe, Sir J. C, Bart., M D,
F R C P. (KM)
- Broadbent, Sir J. F H, Bart,
M D., B.Ch, M A Ox.,
F.R.C.P. (SM).
- Brown, W. L., M.A, M D., B.Ch
Camb, F.R.C.P. (B)

- Buzzard, E F, M D, B Ch., M A.
Ox., F R C P (T, 26)
- Carlill, H, M A, M D, B Ch
Camb (W).
- Cassidy, M A, M A, M D, B Ch.
Camb, F R C P (T)
- Chodak Gregory, Mrs H H, M D
(LW)
- Cockayne, E A, M A, D M Ox,
Ch.B., F R C P (M)
- Collier, J S, M D, B Sc, F R C P
(SG, 26)
- Crawfurd, R H P, M D, B Ch,
M A Ox, F R C P (KM)
- Dawson of Penn, The Rt. Hon
Lord, G C V O, K C M G,
C B, M D, B Sc, F R C P
(L)
- De Souza, D H, M D, D Sc,
F R C P. (W)
- Drysdale, J H, M D, B Ch, M A
Camb, F R C P (B)
- Elliott, T. R, C B E, M A, M D
Camb, F R C P., F R S
Prof (UM)
- Evans, A G, B A, M D Camb,
F R C P (B)
- Fawcett, J, M D, B S, F R C P,
F R C S (G)
- Fenton, W J, M A, M D, B Ch.
Camb, F R C P (C, 24)
- Firth, A C. D, M A, M D, B Ch
Camb., F R C P (LM)
- Forsyth, D, M D, D.Sc, F R C.P
(C)
- Fraser, F R, B A Camb, M B,
Ch B, F R C P Edin
Prof (B)
- French, H S, C B E, M D., B Ch,
M.A Ox, F R C P (G).
- Gosse, A H, M D, M A Camb
(SM)
- Hadley, W J., M D. Durh,
D P H Camb, F R C P,
F R C S (L).
- Hare, Dorothy C, M D (LW)
- Harris, W, B A, M D, B Ch
Camb, F R C P (SM).
- Hartley, Sir P H-S, C.V.O.,
M D, B Ch., M A Camb,
F.R.C.P (B, 24)
- Head, H, M A, M D Camb,
F R C P, F R S (L)
- Herringham, Sir W P., K C M G,
C B, B A, M D Ox and
Dub, F R C P (B)
- Holder, Sir T J, M D, B Sc,
F R C P (B)
- Howell, C M H, M A, M D Ox,
F R C P (G)
- Hunt, G H, M A, D M, B Ch
Ox, F R C P (G)
- Hurst, A F, M D (v Neurology)
(G)
- Kidd, P, M A, D M Ox, F R C P
(L)
- Lakin, C E, M D, B S, F R C S,
F R C P (M)
- Langmead, F S, M D, F R C P.
Prof (SM)
- Lewis, Sir T, C B E, D Sc Wales,
M D, F R C P, F R S
(UM)
- MacCormac, H, C B E, M B,
Ch B Edin, F R C P (M)
- Mackenzie, H W G, M A, M D
Camb, F R C P (T)
- MacLean, H, M D, Ch B Aberd.,
M Sc Liv, D Sc Prof (T)
- Marshall, G, O B E, M D (G)
- Martin, S H C, M D, B Sc,
F R C P, F R S (UM)
- Miller, C H, C B E., M A, M D,
B Ch Camb, F R C P (L)
- Muller, R H, M D, B.S F R C P
(SM)
- Mutch, N, M A, M D, B Ch
Camb, F R C P (also in
Pharmacol) (G)
- Ogle, Cyril, M A, M.D., B Ch.
Ox, F R C P (SG)
- Parkinson, J, M D, B S (L)
- Perkins, J J, M A, M B, B Ch
Camb., F R C P (T., 24)
- Phear, A G, C B, M D, B Ch,
B A. Camb., F.R.C.P (LW).

Poulton, E P, M.A., M.D., B Ch.
Ox, F R C P (G).
Purves-Stewart, Sir J P M.,
K C M G, C B, M D, C M,
M A Edin, F R C P (W)
Rolleston, Sir H D, K C B, M A,
M D, B Ch Camb, D C L
Durh, F R C P (SG)
Rowlands, R A, O B E, B Sc,
M D, B S (L)
Russell, A E, M D, B.S, F R C P
(T)
Ryle, J A, M D (G)
Shaw, H B, M D, B S, F R C P.,
F R C S (UM, 24).
Smith, L A, M D, F R C P (L)
Stott, A W, M A, B Ch Camb
(W)
Tidy, H L, M A, D M, B Ch
Ox, F R C P (T)
Tooth, H H, C B, C M G, M A.,
M D Camb, F R C P
(B, 26)
Torrens, J. A, M D, B S,
F R C P (SG)
Tunncliffe, F W, M D (KM)
Turner, W A, C B, M D, C M
Edin, F R C P (KM, 26)
Turney, H G, O B E, D M,
M.Ch, M A Ox., F R C P,
F R C S (T)
Wall, R C B, D M, B Ch, M A
Ox, F R C P (L, 24)
Ward, G E S, M D, B S,
F R C P (M)
Wilson, C McM, M D, B S,
F R C P (SM)
Wiltshire, H W., M A, M D,
B Ch Camb, F R C P (KM)
Woodwark, A S, C M G, C B E,
M D, B S, F R C P (W)
Wynter, W E, M D, B S,
F R C P, F R C S (M)
Young, R A, C B E, M D,
B Sc, F R C P (M, 24)
Mental Diseases
Chambers, J, M A, M.D, M.Ch
R U I. (M)

Cole, R H, M D, F R C P (SM).
Craig, Sir M, C B E., M A, M D,
B Ch Camb., F.R C P (G.)
Hart, B, M.D (UM)
Macnamara, E D, M A, M D,
B Ch. Camb, F R C P (C).
Norman, H J, M B, Ch B Edin,
D P H Edin & Glas (W)
Smith, R P, M D, B S, F R C P
(T)
Stoddart, W. H. B, M D, B S,
F R C P (T)

*Midwifery, v also Diseases of
Women*

Andrews, H R, M D, B S,
F R C P (L)
Blacker, Sir G F, M D, B S,
F R C P, F R C S (UM)
Bourne, A W, B A, M B, B Ch
Camb, F R C S (SM)
Dodd, S, M A, M.B., B Ch
Camb, F R C S E (W)
Eden, T W, M D Edin., F R C P,
F R C S E (C)
Gillhatt, W., M D, M S., F R C S
(KM)
McIlroy, Anne L, O B E, M D,
B S, D Sc Glas
Prof of Obst and Gyn.
(LW)
Smith, G Bellingham, M B, B S,
F R C S (G)
Smith, G F D., M A, B M, B.Ch
Ox, F R C S (SG)
Spencer, H R, M D, B S,
F R C P (UM)
Stevens, T G, M D, F R C S
(SM).

Neurology

Birley, J L, M A, D M, B Ch
Ox, F R C P (T)
Hurst, A F, M D, B.Ch, M A
Ox, F R C P (G)
Thomson, H C., M D, F.R C P
(M).

(B), (C), etc., (23), (24), etc., v *Note* on p. 140.

Wilson, S A K, M A, B Sc,
M D Edin, F R C P
(K M, 26)

Ophthalmology

Cargill, L V., F R C S (K M).
Collins, E. T, F R C S (27, C).
Eason, H L, C B, C M G, M D,
M S (G)
Fisher, J H, M B, B S., F R C S.
(T., 27)

Goulden, C B, M A, M Ch, M D.
Camb, F R C S (L).

Greeves, R A, M B, B S, B A
R U I, F R C S (M)

Grimsdale, H B, B A, M B,
B Ch Camb, F R C S (S G)

Hepburn, M L, M D, B S,
F R C S (L W, 27)

James, R R, F R C S (S G).
Jeremy, H R, F R C S, L R C P
(L)

Juler, F. A., M B, B Ch, M A
Camb, F R C S (S M, 27)

Lawson, Sir A, K B E, M D
Brux, F R C S (M)

Lister, Sir W T, K C M G, M B,
B Ch, B A Camb, F R C S
(L)

Lyle, H W, M D, B S, F R C S
(K M)

Moore, R F, O B E., M A, B Ch
Camb, F R C S (B, 27)

Neame, H, M B, Ch B. (U M)
Ormond, A W., F R C S (G)

Parsons, Sir J H, C B E, D Sc,
M B, B S, F R C S, F R S
(U M, 27)

Paton, L J, M B, B Ch, B A
Camb, F R C S (S M, 26)

Spicer, W T H, M A, M B
Camb, F R C S (B, 27)

Whiting, M H, M A., M B Camb,
F R C S (M)

*Pathology, v also Anat —Morb,
Chem, Bact*

Andrewes, Sir F W., O B E., M A,
M D, B Ch. Ox, F R C P,

D P.H. Camb, F R S (recogd.
in Bact) Prof (B)

Boycott, A E, M A, B Sc, B Ch,
D M Ox, F R S

Graham Prof (U M).
Daniels, C. W., B A., M B Camb,
F R C P (T M)

Donaldson, R, M A, M D, D T M
Edin, D P H, F R C S (S G)

Dudgeon, L S, C M G, C B E,
F R C P (also in Bact)

Prof (T)
Hicks, J A B, M D, B S, D P H
(recogd also in Bact) (W)

Kettle, E H, M D (S M).
Lakin, C E, M D, B S, F R C P,
F R C S (also in Med) (M)

McIntosh, J, M D, Ch B Aberd
Prof (M)

Perry, Bt Lt-Col H. M J,
L R C P and S I (A M)

Stokes, A, O B E, M D, B Ch,
B A O Dub Dunn Prof (G)

Teale, F H., M D, B Sc, F R C P
(U M)

Williamson, G S, M B, B Ch
Edin (L W)

Pathology, Experimental

Chick, Harriette, M D (L)
Lazarus-Barlow, W S, M D,
B Ch Camb, F R C P

Prof (M)
Martin, C J, C M G, D Sc Shef,
D Sc, M B, F R S

(Prof L I)
Wright, Sir Almroth E, K B E,
C B, M D, B Ch, Sc D

Dub, B A Camb, F R S.
Prof (S M)

Pharmacology, v also Med

Hamill, P., M A, M D Camb,
D Sc, F R C P. (B)

Leyton, O F F, M A, M D, B Ch
Camb, D Sc, F R C P. (also
in Med) (L)

Ransom, F, M D. Edin (L W).
Scarborough, Eleanor M

Reader (L W)

- Woolley, V. J., M.A., M D. Camb (T)
Physics
 Brinkworth, J. H., M Sc. (T.).
 Russ, S., D Sc. Joel Prof (M).
 Stead, G., M A Camb Reader (G).
 White, W. H., M A. Camb, B Sc, A R C S (SM).
 Womack, F., M.B., B.Sc. (B).
Physiology
 Collingwood, B J., B A, M D, B Ch Camb Prof. (SM).
 Cullis, Winifred C., O B E, D Sc Prof (LW)
 Evans, C A Lovatt, D Sc Prof (B)
 Mellanby, J., M A, M D Camb Prof (T)
 Pembrey, M S, M A, M D, B Ch Ox, F R S Prof (G)
 Roaf, H E, M D Tor, D Sc Liv Prof (L)
 Underhill, S W F, M B, Ch B (B)
 Vincent, T S, D Sc Edin, M D Prof (M).
Protozoology
 Thomson, J. G., M A, M B, Ch.B Edin (TM)
 Woodcock, H M., D Sc. (LI)
Radiology
 Reid, Sir A D, K B E, C M G, M R C S, L R C P (T)
Surg, v also Dis of Child
 Adams, J E, M S. (T)
 Back, I, M A, M B, B Ch Camb, F R C S (SG)
 Ball, W G, F R C S (B)
 Ballance, Sir C A, K C M G., C.B., M V O, M S, M.B., F R C S (T)
 Bankart, A S B, M A, M.Ch Camb, F R C S (Ortho-pædics) (M).
 Battle, W H, F R C S. (T).
 Bromley, L., M.B., M Ch Camb, F R C S. (G)
 Bryan, C W. G., F R C S (SM.)
 Carling, E R, M.B., B S, F R C S. (W.)
 Cheatle, Sir G L, K C.B., C.V.O., F R C S (KM).
 Choyce, C C, C M G, C B E, B Sc, M D Edin, F R C S (UM)
 Clogg, H S, M S, M.B., F R C S. (C).
 Cope, V Z, M.A., M D, M S, F R C S (SM)
 Corner, E M, B Sc Lond, M A, M Ch, M B Camb, F R C S (T, 25)
 Cunning, J, M B, B S Melb., F R C S (LW)
 Daniel, P L, F R C S (C)
 Davies-Colley, R, C M G, M A, M Ch. Camb, F.R.C.S (G)
 De Santi, P R W, F R C S (W)
 Dunhill, T P, C M G, M D, B S Melb (B).
 Eccles, W. McA, M S., M.B., F R C S (B).
 Edwards, A T, M A, M.Ch Camb, F R C S (W)
 English, Sir T C., K C.M G., M B, B S, F R C S (SG)
 Evans, A H, O B E, M D., M S, F R C S (W)
 Everidge, J, O B E, F.R.C.S (KM)
 Fagge, C. H, M S, M.B., F R C S. (G).
 Fedden, W. F., M S, M B, F R.C.S. (SG)
 Fitzwilliams, D C L, C M G., M D, Ch M Edin, F R C S (SM).
 Frankau, C H S., C.B.E., M.B., B S., F R C S (SG).
 Fripp, Sir Alfred D., K.C.V O, C.B., M S., M B, F.R.C.S. (G).
 Gask, G E, C.M G., F.R.C.S Prof (B)
 Gordon-Taylor, G, M A. Aberd., M S, B Sc, F R C S. (M).

- Gould, E L P, M A, M Ch, D M Ox (M)
 Greene, W H C (v Anat) (SM)
 Handley, W. S., M D, M.S., F R C S (M)
 Howard, R. J, C B E, M S, M B, F R C S (L)
 Hughes, E. C, M A, M Ch Camb., F R C S (G.)
 Joll, C A, M B, B Ch Brist, M B, M S, B Sc (LW)
 Legg, T. P, C M G, M S, M.B, F R C S (KM)
 Lett, H, C.B.E., M B, Ch B. Manc, F R C S (L)
 Lewis, Emily C, M S, M B, F R C S (LW)
 Lindsay, E C, B Sc N Z, M B, B S, F R C S (L)
 Low, V W., C B, M D, B S, F R C S (SM)
 Martin, E K, M B, Ch B (UM)
 Maybury, B C, M B, B S, F R C S (T)
 Milne, R, M D., M S, F R C S (L)
 Mitchiner, P H, M B, M S, F R C S (T)
 Mullally, G T, M S (W)
 Murray, J, M B, B.Ch Dub, F R C S (M)
 Nehgan, G E, B M, B Ch Ox, F R C S (L)
 Nitch, C A. R, M B, M S, F R C S (T)
 Norbury, L E C, M B, B S, F R C S (LW)
 Page, C M, M S, F R C S (T)
 Pannett, C A, M D, B S, B Sc, F R C S Prof (SM)
 Pendlebury, H. S, M A, M B, B Ch Camb, F R C S (SG)
 Perrin, W. S, M B, M.Ch Camb, F R C S (L)
 Power, Sir d'A, K B E, M A, M.B Ox., F R C S (B).
 Rawling, L B, B A., M.B, B Ch Camb, F.R.C.S. (B).
 Rigby, Sir H. M., K C.V.O, M.B, M.S, F R C S (L)
 Roberts, J E H, O B E, M B, B S, F R C S (B).
 Romanis, W H C, M A, M B, M Ch Camb, F R C S (T)
 Rowlands, R. P., O B E, M B, M S, F R C S (G)
 Sargent, P W G, C M G, M A., M B, B.Ch Camb, F.R.C.S. (T).
 Shattock, C E, M D, M S, F R C S (LW)
 Sherren, J, C B E, F R C S (L)
 Slesinger, E G, O B E, B Sc, M S, F R C S (G)
 Smith, S M, C B., M B, B S, F R C S (SM)
 Souttar, H S, C B E, M A, B M, M Ch Ox, F R C S (L)
 Spencer, W G, O B E, M S, M B, F R C S (W)
 Steward, F J, M.S, M B, F R C S (G)
 Thompson, A. R, M B, Ch M Manc, F R.C.S. (G)
 Trotter, W B L., M.D., M S, F R C S (UM)
 Turner, P, M.S, M B, B Sc., F R C S (G)
 Turner, W, M S, M.B., F R C S (W)
 Vick, R. M, O B E, M A, M Ch, F R C S (B)
 Walker, Sir J. W Thomson, C M Edin, F R C S (KM)
 Wallace, Sir C S, K C M G., C B, M B, B S, F R C S (T).
 Walton, A. J, B Sc., M B, M S, F R C S (L).
 Waring, H. J, C B E., M S, M B., B Sc, F R C S (B)
 Warwick, W. T, M B, Ch B (M)
 Waterhouse, Sir H. F, M D Edin., F R C S. (C)

Watson, Sir C. G., K.B.E., C.M.G.,
F.R.C.S. (B)

Webb, C. H. S., M.S., M.B.,
F.R.C.S. (M)

Webb-Johnson, A. E., C.B.E.,
M.B., Ch.B. Manc., F.R.C.S.
(M)

West, Lt-Col J. W., M.B., B.Ch.,
B.A.O., N.U.I., M.S. Belf.,
D.P.H.I. (Mily S) (AM)

Williams, G. E. O., M.D., M.S.,
F.R.C.S. (UM)

Wilson, H. W., M.B., M.S.,
F.R.C.S. (B)

Tropical Hygiene

Simpson, Prof. Sir W. J. R. (v.
Hyg) (TM)

Trop. Med.

Hewlett, Prof. (v. Bact) (TM)

Low, G. C., M.A. St. And., M.D.,
C.M. Edin. (TM)

Newham, H. B. G., C.M.G., M.D.,
D.P.H., D.T.M. Camb (TM)

Trop. Surg.

Canthe, Sir J., K.B.E., M.A.,
M.B., C.M. Aberd., F.R.C.S.,
D.P.H. (TM)

Venereal Diseases

Harrison, Col. L. W., M.B., Ch.B.
Glas (T)

Zoology, v also Protozoology

Alcock, Col. A. W., C.I.E., C.M.,
M.B., LL.D. Aberd., F.R.S.

(Medical Z) Prof (TM).
Evans, T. J., M.A. Ox (G)

(B), (C), etc., (23), (24), etc., v *Note* on p. 140.

Dental Science

Dental Anat. and Physiol. [(G).

Hopson, M. F., L.D.S. (D. Anat.)

Underwood, A. B. G., M.B., B.S.,
L.D.S. (UM)

Dental Mechanics

Chapman, H., L.D.S. (Ortho-
dontics) (L)

Dowsett, E. B., L.R.C.P., M.R.C.S.,
L.D.S. (G)

Gabell, D. P., L.R.C.P., M.R.C.S.,
L.D.S. (D)

Olver, S. H., L.D.S. (UM)

Dental Surgery

Ackland, R. C., C.B.E., L.R.C.P.,
M.R.C.S., L.D.S. (B)

Bennett, N. G., M.A., M.B., B.Ch.
Camb., L.D.S. (SG)

Buxton, J. L. D., L.D.S. (UM)

Clapham, H. D., M.R.C.S.,
L.R.C.P., L.D.S. (L)

Colyer, Sir J. F., K.B.E., L.R.C.P.,
F.R.C.S., L.D.S. (C)

Dolamore, W. H., L.R.C.P.,
M.R.C.S., L.D.S. (SM, D)

Parfitt, J. B., L.R.C.P., M.R.C.S.,
L.D.S. (G)

Payne, J. L., O.B.E., L.R.C.P.,
M.R.C.S., L.D.S. (G)

Sprawson, E. C., M.R.C.S.,
L.R.C.P., L.D.S. (L)

Turner, H. W., M.R.C.S., L.D.S.
(M.)

Turner, J. G., F.R.C.S., L.D.S. (D)

Wallis, C. E., L.R.C.P., M.R.C.S.,
L.D.S. (KM)

GENERAL INFORMATION

ROYAL ARMY MEDICAL COLLEGE, Grosvenor Rd., S.W. 1. Com-
mandant—Col. C. B. Martin, C.M.G.

Opened 1902, under Army Med. Advisory Board, open only to fully
qualified medical men commissioned in or probationers for the R.A.M.C. or
I.M.S. Profs. of Path. and Bact., Hygiene, Trop. Med., and Military
Surgery. Special teaching in Physical Training and at Mily Hospl. (81
beds), Syphilology. Qu. Alexandra Mily Hospl. (234 beds) forms part of the
Coll. Students (average, about 70) are probationers and Captains, R.A.M.C.,
taking 5 mos' course for promotion. *Residential* accommodation for 70.

ST BARTHOLOMEW'S HOSPITAL, West Smithfield, E C 1 Dean—T W. Shore, O B E, M.D., B.Sc Sub-Dean—W Girling Ball, F.R.C.S.

Founded 1662 Appointed and Recognized Teachers—46 (v *supra*), Library the largest of the kind in London Museum 9400 specimens, 2000 casts and drawings Laboratories, with facilities for research in Path, Pharmacol, etc 757 beds Fees 220 gs. for whole curriculum, from 1st M.B., 190 gs. Scholarships: total annual value over £1000; two for Research in Path (£115) and Surg (£105) open to graduates of any Univ. educated at Bart's Fellowship £600, open to graduates of any Univ for research in Lymphadenoma Residential College within Hospl grounds for 26 students (Warden, R M Vick, O B E, M Ch, F R C S) Large Athletic Grounds Students' Union, including Athletic Clubs and Abernethian Soc Publications Hospital Reports, annually, and Journal (Students'), monthly Number of Internal Students 365 (men)

CHARING CROSS HOSPITAL, Charing Cross, W C 2 Dean—W J Fenton, M D, F R C P Founded 1821 Appointed and Recognized Teachers (v *supra*)—14 Fees entrance, 10 gs., annual, 40 gs. Several scholarships, etc Women students are admitted Number of Students 175

ROYAL DENTAL HOSPITAL AND LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq, W C 2 Dean—H Stobie, L R C P, M.R.C.S., L.D.S. Secy—W J Wadham.

Founded 1858. Open to both sexes Recognized Teachers—3 (v *supra*), others—30 Library, Museum, and Laboratories X-Ray Dept Fees £70 for 2 yrs' Hospl practice and Lectures, or, including 2 yrs' Dent. Mechanics, £200 Number of Students (1923) 346

GUY'S HOSPITAL, St Thomas's St, Borough, S E 1 Dean—Prof T B. Johnston, M B, Ch B Clerk to the Dean—S. H. Croucher

Founded in connexion with St Thomas's, 1769, as a separate School, 1826 Appointed and Recognized Teachers—43 (v. *supra*). Library, 10,000 vols Museum, 5000 specimens and 2000 drawings 626 beds. Fully equipped Dental Dept with Lab. Fees entrance, £28, annual, £49 Foundations in aid of Research Lect'ship in Path, approx £1300 p a, in Clin Chem, £250, Trav. Studentship, £150; Studentship in Mat Med., £40, in Path, £250, Dem'rship in Clin Chem, £150, in Path, £320; Med Research Fellowship, etc Numerous prizes and entrance scholps Resident appointments—58 annually. Residential accommodation for 35 students furnished rooms, 16s to 44s. Number of Students about 850 (men)

KING'S COLLEGE HOSPITAL, Denmark Hill, S E 5. Dean—H Willoughby Lyle, M D, B S, F R C S Secy—S C Ranner, M A. Women students are admitted

Appointed and Recognized Teachers—27 (v. *supra*), others—18. Fees entrance, 10 gs.; complete courses for Med. Degree and Diploma exams, 190 gs., final course only, 93 gs Scholarships. 2 of £80 for Ox. and Camb. students; 1 of £50 for Univ students from Epsom College, 1 of £50 at entrance (Science) and 2 of £50 for students who have passed in Biol., Chem., and Physics and propose to graduate in any British Univ. Hostel with accommodation for 50 men students Students' Publication K.C.H. Gazette. Undergraduate Students 247.

LONDON HOSPITAL, Turner St, Mile End, E. 1 Dean—Prof W.

Wright, M B, D.Sc, F R C S. Secy—E J. Burdon. Women students are not eligible for admission.

Founded 1781 Appointed and Recognized Teachers—42 (*v. supra*), others—65 Laboratories include those of Path Inst for Advanced Research. 950 beds. *Fees*: entrance, 20 gs., annual, 40 gs 34 scholps and prizes Hostel. 150 appointments available for students *Number of Internal Students* 206

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd, S W 1 Director—Prof C J Martin, C M G, M B, D Sc, F R S.

Founded 1901 for Research into causation, prevention, and treatment of diseases of men and animals. Open to Research students of both sexes, usually without fee Appointed and Recognized Teachers—6 (*v. supra*), 10 other members of scientific staff. *Number of Students* 25

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St, Brunswick Sq, W C 1 Dean—Miss L. B. Aldrich-Blake, M D, M S Warden and Secy—Miss Brooks

Founded 1874 Appointed and Recognized Teachers—23 (*v. supra*), others—32 240 beds Special arrangements with several other Hospls. for Clin study and dresserships, etc. Research Laboratories Anat, Biol, Chem, Obst and Gyn, Path, Pharmacol, Physics, Physiol. Courses for B Sc Hons in Anat and Physiol, as well as for Med degrees and diplomas Arrangements for Dental students *Fees* Composition, for full Med course, £240, in annual instalments, £35, £60, £60, £50, £35 Dental course, £80 *Scholarships*, etc, open to students of the School who have graduated in London, £40 and £30, to all Med women, preferably those coming from or going to India, £100 Other Scholps value £1100 p a *Residence* furnished and unfurnished service chambers at from £48 to £95 p a for set.

MIDDLESEX HOSPITAL, Mortimer St, W 1. Dean—A E Webb-Johnson, C B E, F R C S School Secy—R A Foley Secy to Council—W Kewley

Founded 1835 Appointed and Recognized Teachers—36 (*v supra*), others—13 Over 450 beds, including Cancer wing (90), Bland-Sutton Institute of Path with Museum and Labs, Cancer Research Labs, new Bio-Chem Labs *Fees* Entrance, 15 gs, annual, £42 *Scholarships*, etc, worth £1000 p a *Number of Students* 460, and 150 Dental students.

NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich, S E 10 Director of Med Studies—Surg -Comdr. T B. Shaw, M B, Ch B Edin, R N

Opened 1912. Courses (twice a year) in General and Naval Hygiene, Clin. Path, Micro-Biology, for acting Surg -Lieuts. (2 mos, followed by 4 mos. at Haslar Hospl.), Surg -Lieuts (5 mos) for promotion, for Senior Med Officers (3 mos). Number of officers under instruction (average)—80 a year

ST GEORGE'S HOSPITAL, Hyde Park Corner, S W 1. Dean—J. A. Torrens, M D, F R C P.

Founded 1752. Appointed and Recognized Teachers—20 (*v. supra*); others—19 440 beds *Fees* entrance for Clinical course, 10 gs. Annual composition, 40 gs. *Scholarships*, etc, worth £270 p.a. for encouragement of research *St G's Gazette* is issued 3 times a year. *Number of Students*: 80 men

ST MARY'S HOSPITAL, Paddington, W 2 Dean—C M Wilson, M D, F.R.C.P. Secy.—B. E. Matthews, B A Women students are admitted

Founded 1852. Appointed and Recognized Teachers—34 (v *supra*), others—20 *Fees* Course for 1st M B, 3 terms, 20 gs, subsequent yrs, 40 gs p a *Scholarships* £210 (2), £200 (2), £25 *Clinical Units* in Med. and Surg established in 1920-21 *Number of Students* part-time, 89, full-time, 314.

ST THOMAS'S HOSPITAL, Albert Embankment, S E 1 Dean—Sir Cuthbert S. Wallace, K C M G, C B Medical Secretary—A Elliot, M A, M D

Founded in 16th century Recognized Teachers—44 (v *supra*), others—36 Path Dept includes Museum with 3000 specimens Large Laboratories for teaching and research Hospl beds, 602 *Fees* Tuition per annum, £50 Hostel accommodation for 15 *Number of Students* (men only) 485.

TROPICAL MEDICINE, LONDON SCHOOL OF Dean—Sir Havelock Charles, G C V O, I M S, M D Secy—Sir J Michelli, C M G, Seamen's Hospital, Greenwich, S E 10 Open to both sexes

Founded 1899, attached to the Hospl for Tropical Diseases, Endsleigh Gdns., Euston Rd, N W 1 Appointed and Recognized Teachers—9 (v *supra*) Library, Museum, and up-to-date Laboratories with accommodation for 100 Special Depts for Entom, Helminth, Proto-zool In the various Hospls of the Society are always numerous cases of Trop Diseases The funds available for encouraging research include Wandsworth Bequest, £10,000, and £60 p a from E J Stanley Memorial Many Trop Research expeditions have been equipped and maintained by the School Students must be qualified Med practitioners or in 5th yr of Med studies There are 3 sessions of 12 weeks each An examn is held at end of each term Trop Med course suitable for candidates for the M D in Trop Med, Camb diploma in Trop Med and Hyg, and diploma in Dis, etc, of Tropics of Roy Colls Certificates granted Proposals for station at Apia under consideration *Fees* 20 gs for 12 weeks *Number of Students* about 60 per session

UNIVERSITY COLLEGE HOSPITAL, Gower St, W C 1 Dean—Sir George Blacker, C B E, M D, F R C P, F R C S. Open to both sexes

The Med School was separated from the Univ Coll Med Faculty in 1905 Recognized Teachers—24 (v *supra*), others 84 *Library*, 13,500 vols The *Charles Graham Laboratories*, under the direction of Prof A E Boycott, were established in 1902 for research in Path A limited number of qualified students are admitted as Lab workers, to whom grants may be made. *Fees* course for Final M B, B S, or 3rd examn of Conjoint Board—112 gs *Scholarships, etc*: annual value, £1250 *Residence* for Maternity students *Publications* *Prospectus, Transactions of Research Dept, Magazine* (Students'). *Number of Students*, 259

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ College Hospl in 1914

WESTMINSTER HOSPITAL, 12 Caxton St, Westminster, S W 1 Dean—A. S. Woodwork, C M G., C B E., M D, F R C P. Secy—Major J Burke Women students are admitted

Founded 1834 Recognized Teachers—21 (v. *supra*), others—12 *Fees* 35 gs p.a. and 10 gs entrance *Number of Students* 63

FACULTY OF LAWS

The teaching of the Univ has been arranged on an inter-collegiate basis, the Profs and Teachers of Univ and King's Colleges and of the London School of Economics dividing the work among them See also staff lists of Univ College (History), King's College (History), Birkbeck College, School of Economics, and Other Institutions (p 155)

PROFESSORS AND TEACHERS, January 1, 1924

Ball, W Valentine, O B E , M A Camb * (Railway L)	Hurst, G H J , M A , LL M Camb * Reader in English L (U)
(K and E)	Mackay, H J H , M A , LL B
Bell, W L L , M A (K)	Glas * (English L) (K)
de Montmorency, J E G , M A ,	McNair, A D , M A , LL M
LL B Camb *	Camb * (Internat L) (E.)
Quain Prof of Compara-	Morgan, J H , B A Ox , M A *
tive L (U)	Prof of Constitl L (U , E.)
Griffith, W Hussey, M A Camb *	Murison, A F , M A , LL D
(Common I) (K)	Aberd * (Jurispr and Roman
Gutteridge, H C , M A , LL B	L) (U)
Camb *	Roxburgh, R F , B A Camb *
Cassel Prof of Comml	(Comml and Indust L) (E)
and Indust L (E)	Sabonadière, A (Hindu and Mo-
Hibbert, W N , LL D * (Jurispr	hammedan L) (U)
& Roman L) (K)	Slessor, H H * (Indust L) (E)

* Barrister-at-Law

OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

- | | |
|--|--|
| <p>(1) GOLDSMITHS' COLLEGE.*
 (2) BATTERSEA POLYTECHNIC.
 (4) CITY OF LONDON COLL.
 (5) FINSBURY TECHNICAL COLL.
 (6) JEWS' COLL
 (7) NORTHAMPTON POLYT INST.
 (8) NORTHERN POLYT INST
 (9) ROYAL VETFRINARY COLL
 (10) SIR JOHN CASS TECH INST
 (11) CHELSEA POLYT
 (12) WEST HAM MUNICIPAL COLL
 (13) WOOLWICH POLYTECHNIC.
 (14) MARIA GREY TRAINING COLL
 (15) ST. MARY'S COLL , PADDINGTON.</p> | <p>(16) BOROUGH ROAD COLL , ISLE-
WORTH
 (18) ROTHAMSTED EXPERIMENTAL
STATION
 (19) ROYAL ACADEMY OF MUSIC
 (20) ROYAL COLL OF MUSIC
 (21) TRINITY COLL OF MUSIC
 (23) BETHLEM ROYAL HOSPL.
 (24) HOSPL. FOR CONSUMPTION.
 (25) HOSPL FOR SICK CHILDREN
 (26) NAT HOSPL FOR PARALYSED
AND EPILEPTIC.
 (27) ROYAL LOND OPTHALMIC
HOSPL
 (28) SCH OF PHARMACY.</p> |
|--|--|

* Incorporated in the Univ

NAMES OF RECOGNIZED TEACHERS, January 1, 1924

Note —In the following list the names of the institutions are indicated by the numerals—(1), (2), etc , as above Teachers to whom only probationary recognition has been granted are not included in the list

- | <i>Agriculture</i> | <i>Chemistry</i> |
|---|--|
| Keen, B A , D Sc (Physics ap-
plied to A) (18) | Arnall, F , M Sc (11) |
| | Barnett, E de B , B Sc (10). |
| <i>Art (Fine Art)</i> | Clough, G W , D Sc Birm (9) |
| Marriott, F , A.R.C.A , A.R.E (1) | Coleman, J. B , A.R.C.S , F.I.C ,
F.C.S (11) |
| <i>Biology, v supra, Medical
Schools' Recognized Teachers</i> | Dean, G , M A Camb (12) |
| | Drakeley, T J , Ph D , M Sc ,
F.C.S , A.I.C (8) |
| <i>Botany</i> | Field, S , A.R.C.S (Applied C) (7) |
| Drabble, F , D Sc Lond and Sheff ,
A.R.C.S , F.L.S (8) | Keane, C A , D Sc Manc , Ph D
Erl , F.I.C (10) |
| Wallis, T E , B Sc , F.I.C (28) | Kenyon, J , D Sc , F.I.C (2) |
| Lacey, H B , F.L.S. (11) | |

Lowe, F H , M Sc Manc (11).
 Melland, G , M Sc Manc ,
 A R S M , F I C (13)
 Pickard, R. H , B Sc Birm , Ph D
 Munich, D Sc , F.R S (2)
 Sand, H J S , Ph.D Zur , D Sc
 Birm (10)
 Smith, F W , B Sc (8)
 Streatfeild, F H. (12)
 Thorne, P C L , M A Camb
 (10)
 White, J. L , D Sc. Durh (2)

Chemistry, Organic

Crocker, J C., M.A. Camb , D Sc ,
 F.C S (11)
 Richardson, D. H , M.Sc (8)

Chemistry, Physical

Butler, R R , B Sc (7)

Classics

Crump, Mary, M A (Latin) (1)

Education, v also Music

Brock, F. H C , M A (1)
 Graveson, Caroline C., B A (1)
 Johnston, Katharine L , M A
 Sheff , T D Camb , B A (14)
 Meiklejohn, Grace I W , M A
 Edin (14)
 Powell, Helena L. (15)
 Raymont, T , M A (1)
 Smith, Phyllis W , M A (14)
 Steppat, Mrs M A A , M A
 Durh , M A (14)
 Wimms, J H , M A Wales, B Sc
 (1)

Engineering, Civil

Curnock, W E M , M.Sc.
 (Eng) Manc , B Eng Liv ,
 A M I E E (Lectr in Civ. and
 Mech E) (2)
 Hamilton, K W , B Sc (Eng.) (2).

Engineering, Electrical

Baillie, T C , D Sc , M.A. Edin ,
 A M I E E (12)
 Boraston, C A , B Sc (Eng) Liv
 (7)
 Bridger, W , B Sc (Eng) (12).

Burgess, Alfred F , B.Sc. (Eng.)
 (7).
 Denton, F. M , A C G I , M I E E.
 (7)
 Dover, A T , A M I E E (2)
 Dowse, C M , B Sc (Eng) (7)
 Eccles, W H , D Sc , F R S. (5).
 Hill, H., B Sc (Eng) (7).
 Howgrave-Graham, R P (7).
 Jolley, A C (7)
 Spencer, W G , M Sc (Tech)
 Manc , A M I E E. (13)
 Walmsley, R M , D Sc , M I E E
 (7)

Engineering, Mechanical, v also
 E , Civil

Ashworth, M H , B Sc Manc
 (13).
 Davies, V C , B Sc , A.M I Mech.E.
 (2)
 Dumbrill, W E , B.Sc (Fluids)
 (7)
 Edmonds, H M , B Sc. (Eng) (2).
 Frier, J D (Fluids) (7)
 Larard, C E , M I Mech E ,
 M I C E (7)
 Richardson, D (7).
 Scoble, W A , M B E , D.Sc
 (Eng) , M I Mech E.,
 A M I C E (13).
 Shaw, J B , A R C S (2)

*Engineering, Mech., and Sur-
 veying*

Duncan, J , M I Mech E (12)
 Gladwyn, A E., B Sc (Eng) ,
 A M I Mech E (12).
 Parker, W. E , B Sc (Eng) Manc
 (7)

Geology

Brammall, A , M Sc (8).
 Maslen, A. J , F G S. (11).

History

Dymond, Dorothy, M.A. (1).

Law, Commercial and Mercantile

Humphries, S , B A , LL B Camb
 (4).

Mathematics

- Bickley, W G, M Sc (2)
 Bryant, R, B A, D Sc (4).
 Church, A E R, M A, B Sc (10)
 Clay, R S, B A Camb, D Sc
 (Maths and Physics) (8)
 Curzon, H E J, M A Camb,
 D Sc (1)
 Graham, J, B E, B A R U I.
 (5)
 Harvey, F W, M A R U I, B Sc
 (2)
 Lister, J, A R C S (11)
 Littlejohn, E S, M Sc Manc
 (12)
 Miller, T H, M A, D Sc Glas
 (16)
 Rhind, A, B Sc, A R C S (8)
 Salmon, W H, M A Camb, B Sc
 (12)
 Saxelby, F M, M Sc Manc, B A
 (2)
 Smith, R T, B A Camb (13)
 Turner, G C, B Sc (7)

*Medicine and Surgery, v infra**Metallurgy*

- Naish, W A, A R S M, M I M M,
 A I C (11)

Music

- Allen, Sir H P, Mus D, M A Ox,
 F R C M (20)
 Bridge, Sir Frederick, C V O,
 Mus D, Ox, M A Durh
 K Edward Prof (20)
 Corder, F, F R A M (19).
 Davies, Sir H Walford, Mus D
 Camb, L L D Leeds, F R C O,
 A R C M (20)
 Daymond, Emily R, A R C M (20)
 Dunhill, T F, A. R C M (20)
 Greenish, A J, Mus D Camb (19)
 Horner, E F, D Mus Durh,
 F R C O (21).
 Macpherson, S, F R A M (19)
 Parratt, Sir Walter, K C V O,
 Mus D, M A Ox, Mus D
 Camb (20)

- Pearce, C W, Mus D Camb,
 M A. Durh (21)
 Read, F J, Mus D Ox (20)
 Richards, H W., Mus D Durh,
 F R C O (19).
 Salsbury, Janet, Mus D Durh.,
 L R A M, F R C O (21)
 Stanford, Sir C V, Mus D. Ox,
 Camb, and Dub, M A,
 D C L, L L D (20)
 Waddington, S P (20)
 Warriner, J, Mus D Dub (also in
Pedag as applied to Music)
 (21)
 Wetton, H D, D Mus Durh,
 F R C O (2)
 Wharton-Wells, H, B Mus Ox
 and Durh, F R C O,
 L R A M (also in *Pedag* as
 applied to Music) (11)
 Wood, C, M A, Mus D Camb,
 L L D Leeds (20).

*Pedagogy, v. Education, Music**Physics, v also Maths*

- Charlesworth, J, M Sc Manc (8)
 Clarke, F C, B Sc, A M I E E
 (12)
 Eccles, W H, D Sc, F R S
 (Physics & Elec Engin) (5)
 Emsley, H H (7)
 Evans, A E, B Sc. (2)
 Humphry, R H (10)
 Lownds, L, Ph D Berl, B Sc
 (11)
 Marsh, S, B Sc Wales, Ph D
 Gott (2)
 Nicol, J, B A Camb, B Sc (8)
 Oschwald, U A, B A (11)
 Owen, D, B A Camb, D Sc (10).
 Polson, W, M A, B Sc Aberd
 (12)
 Skinner, S, M A Camb (11)
 Starling, S G, B Sc, A R C S,
 A I E E (12).
 Tarrant, A G, B Sc, A R C S
 (11)
 Vinycomb, T B, M A R U I
 (13)

Physiology

Symes, W L, M R C S. (9)

Semitic Languages

Büchler, A, Ph D Leip (6)

Daiches, S, Ph D Leip (6)

Hirschfeld, H, Ph D Stras (S
(Epig and Hebrew and S)

(6)

Marmorstein, A, Ph D Heid
(Bible and Rabbis)*Veterinary Hygiene*

Wooldridge, G H, F R V S (9)

*Veterinary Pathology and Bacteriology*McFadyean, Sir John, LL D,
M B, C M, B Sc Edin,
M R C V S Prof (9)*Zoology*Cunningham, J T, M A Ox,
F Z S (8)**Medicine***Bacteriology*Nabarro, D N, B Sc, M D,
D P H, F R C P (25)*Diseases of Children **Barrington-Ward, L E, M Ch,
Edin, F R C S (25)Colman, W S, M D, F R C P
(25)

Frew, R S, M D Edin (25)

Hutchison, R, M D, C M Edin,
F R C P (25)Lane, Sir W A, Bart, C B, M S,
M B, F R C S (25)*Laryngology, Oto-Rhino- **Dundas-Grant, Sir J, K B E,
M D, C M, M A Edin,
F R C S (24)*Medicine **Holmes, G M, C M G, C B E,
M D, B Ch, B A O, B ADub, F R C P (Med and
Ophthalmology) (26)Russell, J S R, M D, C M
Edin, F R C P (26)Stewart, T G, M D, Ch B Edin,
F R C P (26)Stoddart, W H B, M D, B S,
F R C P (23)Taylor, J, C B E, M A, M D,
Edin, F R C P (26)*Mental Diseases*Phillips, J G P, M D, B S,
F R C P (23)*Neurology **Howell, C M H, M A, D M Ox.,
F R C P (26)*Ophthalmology, v also Med **Flemming, P M D, B S, F R C S
(27)Hudson, A C, M A, M D, B Ch
Camb, F R C S (27)Lang, B T, B A Camb, F R C S
(27)

Worth, C A, F R C S (27)

*Pathology*Inman, A C., M A, M B, B Ch
Ox (24)*Pharmaceutics*Greenish, H G, F I C, F L S,
D del'U Paris Prof (28)*Surgery **Addison, O L., M B, B S,
F R C S (25)Armour, D J, C M G, M B, B A
Tor, F R C S (26)Gray, H T, M A, M Ch Camb,
F R C S (25)Waugh, G E, B A Camb, M D,
B S, F R C S (25)

GENERAL INFORMATION

[(a) Principal. (b) Subjects in which recognized. (c) Number of students.]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S E 14 Incorporated in the Univ Warden, and Principal of the Training Dept.—T. Rayment, M A. Vice-P'pals of Training Dept.—F H. C. Brock, M.A., and Miss C. C. Graveson, B A

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891 Open to both sexes Recognized Teachers—9 (*v. supra*)—Art, Classics, Educn., Engl, Hist, Maths, others—62

Training Department. Recognized by Bd. of Educn as a Training Coll (Elem) Ordinary course—2 yrs., or for students preparing for B A (Pass) degree—3 yrs Lectrs. and Instrs.—35 *Annual fee* for tuition with mid-day meal: £21. Hostels provide accommodation for nearly all the women and many men students

School of Art (Day and Evening) Headmaster and 8 Assts. *Fees* Day, £5 to £15; Evening, 10s. to 30s., per session.

Engineering and Building Dept (Evening) Carried on at expense of L C C and only temporarily retained at the Coll Courses College Certif and Diploma; C.G.I examns, Engineering Degree (5 yrs)

2. BATTERSEA POLYTECHNIC, Battersea Park Rd, S W 11 (a) R. H. Pickard, D Sc, F R S (b) Chem, Engin (Civ, Elec, Mech), Maths, Music, Physics. (c) 2936.

4. CITY OF LONDON COLLEGE, White St, Moorfields, E C 2 (a) S. Humphries, B.A, LL.B (b) Law (Comm and Merc.), Maths (c) Day, 314, Evg, 2265

5. FINSBURY TECHNICAL COLLEGE, Leonard St, Finsbury, E C 2 *Dean*—A J Hale, B Sc, F I C (b) Elec Engin, Maths, Physics (c) Day, whole-time, 120.

6. JEWS' COLLEGE, Queen Sq House, Guilford St, W.C 1 (a) A. Buchler, Ph D. (b) Hebrew, Semitics (c) 19

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St John St, E C 1 (a) R. M Walmsley, D.Sc, M I E.E (b) Engin (Elec, Civil, Mech), Maths, Chem., Physics, Surv. (c) 2145.

8. NORTHERN POLYTECHNIC INSTITUTE, Holloway Rd, N.7. (a) R S Clay, D Sc, B A (b) Bot., Chem, Geol, Maths, Physics, Zool (c) 2230

9. ROYAL VETERINARY COLLEGE, Gt College St., Camden Town, N.W 1. (a) Sir John McFadyean, M B, C M., B Sc, LL D., M.R C V S. (b) Biol., Chem, Vet. Anat., Vet. Hyg, Vet Path and Bact., Vet Physiol. (c) 137.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (a) C. A. Keane, D Sc., Ph D., F.I C. (b) Chem., Maths, Physics. (c) 1000.

11. CHELSEA POLYTECHNIC, Manresa Rd, Chelsea, S W.3. (a)

S Skinner, M A. (b) Bot., Chem., Geol., Maths, Metall, Music, Physics, Zool (c) Day, 790; Evg, 3731.

12 WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E 15 (a) T. C. Baillie, M A, D.Sc (b) Chem, Engin (Civ., Elec, Mech., Maths, Physics (c) Day, 305; Evg, 1566.

13. WOOLWICH POLYTECHNIC, Lower Market St, Woolwich. (a) A F Hogg, M A, F C S. (b) Chem, Engin. (E., M), Maths., Phys. (c) 1200

14 MARIA GREY TRAINING COLLEGE, Salusbury Rd, Brondesbury, N W 6 (a) Miss K L Johnston, M A (b) Educn (c) 140

15 ST MARY'S COLLEGE, 34 Lancaster Gate, W 2 (a) Miss H L. Powell (b) Pedagogy. (c) 75, including 62 Froebel students

16 BOROUGH ROAD COLLEGE, Spring Grove, Isleworth (a) T. H Miller, M A, D Sc (b) Maths (c) Resident, 138, non-resident, 4.

18 ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts
Director—Sir John Russell, D Sc, F R S (b) Agricultural Science. (c) 5
v Appendix IV

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd, N.W 1 (a) Sir A C Mackenzie, K.C.V.O., Mus D, LL D, D C L, F R A M (b) Music (c) 793.

20 ROYAL COLLEGE OF MUSIC, Prince Consort Rd, S Kensington, S W 7 *Director*—Prof Sir H. P Allen, M A, Mus.D, F.R.C.M. (b) Music. (c) 500

21 TRINITY COLLEGE OF MUSIC, Mandeville Place, W 1 *Chairman of the Board*—Sir Frederick Bridge, C V O, D Mus, M A (a) *Director of Studies*—C W Pearce, M A, Mus D (b) Educn (Ped as applied to Music), Theoretical M subjects (c) 664.

23 BETHLEM ROYAL HOSPITAL, Lambeth Rd, S E 1 *Physician Supt*—J G Porter Phillips, M D, B S, F.R.C.P. (b) Mental Diseases

24 BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd, S W 3 *Dean*—L S Burrell, M A, M D; *Sub-Dean*—A C. Inman, M A, M B (b) Med

25 HOSPITAL FOR SICK CHILDREN, Gt Ormond St, W C 1. *Dean*—Oswald L. Addison, F R C S. (b) Med and Surg Dis. of Child. (c) 270

26 NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, Queen Sq, W.C 1. *Dean*—C M Hinds Howell, M.D., M.A, F.R.C.P. (b) Neurology, Neurol. Surg, Aural Surg, Ophth (c) 409

27. ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E C 1. *Dean*—M. L. Hepburn, M D, B S, F R C S (b) Ophth (c) 190

28 SCHOOL OF PHARMACY OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Sq, W C.1. *Dean*—Prof H G Greenish, D ès Sc, F I C. (b) Pharmaceutics; Botany. (c) 100.

VICTORIA UNIVERSITY OF MANCHESTER

VISITOR—THE KING.

CHANCELLOR—Rt Hon EARL OF CRAWFORD AND BALCARRES, K T ,
LL D , F R I B A

VICE-CHANCELLOR—SIR HENRY A MIERS, M A , D Sc , LL D , Ph D ,
F R S

SENIOR PRO-VICE-CHANCELLOR—EDWARD FIDDES, M A.

PRO-VICE-CHANCELLOR—Prof F E. WEISS, D Sc., F R S.

CHAIRMAN OF THE COUNCIL—SIR F. FORBES ADAM, Bart , C B , C I E.,
LL D

TREASURER—SIR C T. NEEDHAM, B A.

CHAIRMAN OF CONVOCATION—W FLETCHER SHAW, M D

INTERNAL REGISTRAR—NORMAN SMITH, D Sc.

EXTERNAL REGISTRAR—H P TURNER, M A , LL M

DIRECTOR FOR WOMEN STUDENTS—PHOEBE SHEAVYN, D Lit

TUTOR AND SECRETARY, FACULTY OF ARTS—C S S HIGHAM, M A ,
OF SCIENCE—J E MYERS, O B E , D Sc , OF MEDICINE—W H
WOOD, B Sc , M D

BURSAR—S CHAFFERS, M A

LIBRARIAN—C. W. E. LEIGH, M A

PROFESSORS, LECTURERS, ETC., January 1, 1924

Accounting [Lectr
Ferguson, H S , M Com , F C A
Wilkinson, R H E , A C A Asst

Agricultural Botany [Sen Lectr.
Smith, A E H , B Sc Edin

Agricultural Entomology
Smith, K M , A R C S Sen Lectr.

Anatomy
Stopford, J S B , M D Prof
Wood, W H , B Sc , M B Lectr
Sellars, Ruth, B Sc Edin Lectr
Morley, J., M B , Ch M , F R C S
Lectr (Applied A.)

Holmes, A H , M D
Lectr (Applied A)
Jefferson, G , M S , F R C S „ „
Morison, J M W , M B , C M
Glas Lectr. (Applied A).
Stewart, D , M R C S , L R C P
Asst Lectr
2 Deinstr

Archæology
Braunholtz, Mary A B , M A
Lectr (Classical A)
Peet, T E , M A Ox
Lectr (Egyptol)

* (S) = Special Lectr

Architecture

Dickie, A. C., M A, F.S.A.,
A.R.I.B.A. Prof
Edwards, W. B., B Arch Liv,
A R I B A Lectr
Drury, F E, M Sc Tech, F I S.E.,
M C I Lectr (Bldg Constn)
Asst Lectrs
Grantham, G J, A M I S E (Bldg
Constn)
Briggs, R W, B A, A R I B.A.
Phythian, J. E, M A
Lectr (Mural Painting)
i Instr in Drawing

Banking

Bellhouse, H H Lectr
Fraser, Sir D D, K B E, M Com
(H)

Botany, v also Agric

Weiss, F E, D Sc Lond, M Sc,
F R S Harrison Prof
Howarth, W. O, M Sc Lectr.
Walton, J, M A Camb Lectr
Drew, Kathleen M, B Sc
Asst Lectr

Botany, Cryptogamic

Lang, W H, M B, C M, D Sc
Glas, F R S Barker Prof
Robinson, Wilfrid, D Sc
Sen Lectr

Chemistry, v also Physics,
Physiol, Pub Health, Tech

Lapworth, A, D.Sc Lond, F R S
Sir S Hall Prof
Robinson, R, D Sc St And,
F R S. (Organic C.) Prof
Dixon, H B, C B E, M A Ox,
Ph D Prague, M Sc, F R S.
Hon Prof
Burt, F P., M B E, B Sc Lond,
D Sc Bris (Stoichio-C)
Senior Lectrs Reader
Smith, Norman, D Sc
Myers, J E, O B E, D Sc
Stephen, H., O B E, D Sc.
Challenger, F, D Sc Birm, B Sc
Lond, Ph D Gott

Lectrs :

Campbell, C, D Sc.
Bangham, D H, B A. Ox.
Core, A F, M.Sc (S).
Henry, D C, B A Camb.
Fairbrother, F, M Sc Asst.
Burkhardt, G N, M Sc. Asst.
Royle, F A, M Sc, Ph D. Asst.
Weston, A, B Sc Asst.
Core, C G, M Sc Asst
Hirst, E L, M A, Ph.D St. And.
Asst
Gaul, E G, M Sc (Bact C).
2 Demrs

Chinese

Parker, E H, M A. Prof.

Classics, v also Archæology

Calder, W M, M A Aberd & Ox
Hulme Prof of Greek
and Lectr in Christian
Epigraphy
Conway, R S, Litt D Camb
and Dub, F B A. (Latin and
Indo-Eur Philol)

Hulme Prof
Anderson, W B, M A Camb,
D Litt Aberd (Imperial
Latin) Prof.
Braunholtz, G E K, M A Camb
(also Lectr in Indo-Eur
Philol) Sen Lectr
Husband, Jeanie, B A Liv
Lectr

McLachlan, H, M A, D D.
(Hellenistic Greek) Lectr.
Drew, D L, M A Ox Lectr.
Clifton, E W V, M A Ox
Asst Lectr
Petch, J A, B A Ox. Asst Lectr.

Commerce, v Acc, Econ, Rail

Crystallography

The Vice-Chancellor Prof.
Buckley, H E, M Sc Asst Lectr.

Dentistry, v. *infra*

(H.), (S) = Honorary, Special, Lectr.

Economics, v also Banking

Clay, H, M A. Ox, M Com Jevons Prof.
 Daniels, G W., M A, M Com.
 (Com and Adminstrn.) Prof
 Ashton, T S, M A Senr Lectr
 Collier, Frances, M A.
 Research Asst.

Economic History

Unwin, G., M.A. Ox. Prof

Education

Smith, H Bompas, M.A Ox,
M Ed Prof
Findlay, J J, M A Ox, Ph D
Leip, M Ed
Sarah Fielden Prof
Mark, T., D Lit Lond., B.Sc,
M Ed. (H)
Eggar, Margaret E, N F U

Helm, J H, B A Camb Lectr
Wheeler, Olive A, D Sc Lond,
M Sc Wales Lectr & Tutor
Ewing, Irene R (E of the Deaf)
E Ll. Jones Lectr

Conway, Gladys, B A Liv (Con-
 tinuation School E) Lectr
 Start, Laura E , M Ed Lectr
 Vaughan, Frances M , M A
 N. U. I Lectr

Hindshaw, Winifred, M A., M Ed
Lectr

Clarke, Winifrid S Lectr
Jackson, Rev. S F, M A, Litt D

Burstall, Sara A, B A Lond.

M.A Dub (S)
Paton, J. L, M A Camb (S).

Oppenheimer, Mary (Handwork
and Drawing) Lectr

Keighley, T., Mus D (Elementary
E —Singing) Lectr

Medical Officers and 3 Instrs for
Elem E Dept

Egyptology, v Archaeology

Electro-Chemistry, v Physics

Electro-Technics

Beattie, R, D Sc Durh, M I E E.
E S Massey Prof
Gerrard, H, M Sc, A M I E E
Sen Lectr
Higham, J, M Sc, A M I E E
Lectr

Engineering, v also Tech

Gibson, A. H., D.Sc., M.I.C.E.,
M.I.Mech.E. Beyer Prof.
Sandeman, E., M.Sc., M.I.C.E.
Assoc. Prof. and (S) in
Water Supply and
Irrig.

Dewhurst, C B., M Sc , A I C E
Clifton Lectr

Mason, C M , M Sc , A M I C E ,
A M I Mech E Sen Lectr

Jones, Eric, M Sc		Lectr
Baker, H W, M Sc	Asst	Lectr

Wrigley, J. S., B.Sc., Manc., „ „
Mucklow, G. F., B.Sc., Asst. Lectr.

Clifford, G H W , B Sc Birm
Asst Lectr

Frith, J , M Sc , M I E E
Special Lectr (Mech E)

English Language and Literature

Sedgefield, W J, M A Camb,
Litt D Melb

Smith Prof (E Lang)
Charlton, H. B. M A Leeds

Taylor Prof (E Lit)
Herford, C. H. Litt D Camb and

Wright, J. D., M.A. Hon Prof
Senr Lectr

Harmer, Florence, B A Lond
Lectr.

Sheavyn, Phoebe, D Lit Lond
(S)

Evans, B I, B A Lond.
Asst Lectr

Gorton, Priscilla G , M A
Asst Lectr

French Language and Lit

Kastner, L E, M A Camb Prof
Orr, J, M A., B Litt Ox, L ès L.

Paris Prof (F Language).

(H.), (S) = Honorary, Special, Lectr.

- Marks, J, M A Lectr.
 Valette, Mme Andrée, L. ès L. Asst Lectr
 Paris Lectr.
 Fawtier, R, D ès L, Ag d'Hist Lectr
 Crump, Phyllis E, M A Lond Lectr
 Fawtier, Mme Ethel, D de l'U Paris Asst Lectr
 Bearman, Ethel C, B A Ox ,,
Geography [Reader.
 Barker, W. H., B.Sc. Lond.
 Curnow, Irene J, B A Asst Lectr
Geology, Palæont, and Petrol
 Jones, O T, M A Camb, D Sc Wales Prof
 Dawkins, Sir Wm Boyd, M A., D Sc Ox and Manc, F R S Hon. Prof
 Straw, S H, M Sc Lond Lectr
 Williams, N T, B Sc Wales, M I Min E (Mining) Lectr
 Andrew, G, B Sc Asst Lectr
German and G Philology
 Johansson, A, M A Dorpat and Manc Henry Simon Prof
 Halliday, F. W, M A Lectr
 Lloyd, M D I, M A Wales Lectr
Hebrew, v. Semitic
Histology, v Physiol, Med (Path)
History, v also Econ, Palæog
 Tout, T F, M A Ox and Manc, D Lit Durh, F B A Prof
 Davis, H W C, C B E, M A Ox (Modern H) Prof
 Powicke, F M, M A Ox and Manc. (Mediæval) Prof
 Tait, J, M A, Litt D, F B A Prof (H)
 Bishop Fraser Lectr
 Atkinson, D, B A Ox (Ancient) Reader
 Higham, C S S, M A Camb (Colonial and Mily) Lectr.
 Higham, Florence M G., M.A., Ph D Asst Lectr
 Deanesly, Margaret, M A Asst Lectr
 Fiddes, E, M A Camb, Aberd and Manc (Roman) (S)
 Dunlop, R, M A (Irish) (S)
 Fawtier, R, D ès L (French) Lectr.
Italian Studies
 Rébora, P, D Litt Turin Prof.
 Valgimigli, A Asst Lectr.
Law, v also Railway
 Eastwood, R A, LL D Prof
 Oldfield, Sir Francis du Pré Prof (Jurispr)
 Sen Lectr
 Osborne, F B, M A Ox Lectr
 Easton, J M, M A Ox Lectr.
 Ferguson, H S, M Com, F C.A., *Mathematics, v also Tech*
 Chapman, Sydney, M A Camb., D Sc, F R S (M and Nat Philos) Beyer Prof
 Mordell, L J, B A Camb Fielden Prof (Pure M)
 Lectr.
 Child, J M, M A Camb, B Sc Lond Lectr
 Eagle, Albert, B Sc., A R C S Lectr.
 Bailey, W H, M A Camb Lectr
 Jones, D C, M A Camb Asst Lectr
 Withington, Doris, M Sc Asst.
Medicine, v infra
Metallurgy and Metallography, v also Tech
 Thompson, F C, B Sc Lond, D Met Sheff Prof
 O'Neill, H, M Met Sheff Asst Lectr.
 Cartwright, W., O B E, M Sc Asst Lectr.
Military Organisation and Tactics, v also Hist.
 Irwin, Major C D, M C. (H.).
Mining, v. Geol

(H), (S.) = Honorary, Special, Lectr.

Music, v also *Physics* (Acoustics)
 Brodsky, A, Mus D Lectr
 Keighley, T, Mus D Lectr
 Wilcock, A W, Mus D Lectr

Palæography

Little, A G, M A Ox Reader

Philology, v *Classics*, German

Philosophy, v also *Pol*, *Psych*,
Theol

Alexander, S, M A Ox and Manc.,
 LL D St And, F B A

Sir S Hall Prof

Physics, v also *Elec* and *Tech*

Bragg, W L, M A Camb, F R S
 Langworthy Prof of P
 and Prof of *Acoustics*

Schuster Sir Arthur, Sc D. Camb.,
 Ph D Heid, D Sc, F. R S

Hon Prof

Lobley, A G, M Sc (Electro-
 Chem) Reader

Nuttall, J M, M Sc Sen Lectr

James, R W, M A Camb, B.Sc.
 Lond Senr Lectr

Dickson, E C S, B A Camb,
 Ph D Bonn Sen Lectr

Bell, H, M A Edin Lectr.

Brentano, J C M, D Sc Mun
 Lectr

Watson, W H, B Sc Asst Lectr
 Blackaby, J H, B Sc Lond.

Asst Lectr

Lowery, H, B Sc Lond
 Asst Lectr

Vernon, W. S., M.Sc. N.Z. „ „

Physics, *Colloid*

Henry, D C, M A Camb Lectr

Physiology and Histology

Raper, H S, C B E, D Sc, M B,
 Ch B Leeds

Brackenbury Prof

Lamb, F. W. J. A., B.A., M.D.,
 D P H Dub

Reader in Human P

Robinson, A L, M B, M A, Sc B
 Dub Lectr (Chem P)

McSwiney, B A, M B Dub

Lectr (Exper P)

Wilson, S R, M B, F R C S
 Edin Asst Lectr

Ritchie, A D, M A St And,
 B A Camb Asst Lectr

White, H V, M D (H)

Langley, G J, M D, B S Lond
 (H)

Political Philosophy [Lectr

Roth, H I., M A, D Phil Ox

Psychology [Prof

Pear, T H, B Sc Lond, M A

Thouless, R H, M A, Ph D
 Camb Lectr

Wyatt, Stanley, M Sc, M Ed (S)

Railway Law

Turner, H P, M A, LL M Lectr

Russian [Sir W Mather Prof

Trofimov, M V, M A Pet

Semitic Langs and Lit

Canney, M A, M A Ox (Prof
 of Bibl Crit) Prof

Eltoft, H C R, B A Asst Lectr

Spanish

[Lectr
 Entwistle, W J, M A Aberd

Technology, v *infra*

Theology, v also *Classics*, *Sem*

Peake, A S, M A Ox, D D
 Aberd, B D (Bibl Crit)

Rylands Prof.

Farquhar, J N, M A, D Litt Ox
 (Comp Religion) Prof

Lectrs

Mackintosh, R, B D Edin, M A,
 D D Glas (Philos of Rel).

Parsons, R G, M A Ox (Bib Cr).

Lectrs in Hist of Doctrine:

Mumford, A H, B A Lond, B D
 Edin

Grensted, L W, M A Ox, B D

Brewis, J T., B A, B D

Moulton, W J, M A, B D. Camb

Townsend, H, M A, D D Lond

(H.), (S) = Honorary, Special, Lectr

Grieve, A J, M A Ox, D D
Lond

Veterinary, v *infra*, Pub Health

Zoology, v also Agr

Hickson, S J, M A Camb, D Sc
Lond, D Z and Bot Gron,
F R S Beyer Prof

Thomson, J Stuart, Ph D Berne,
M Sc Sen Lectr

Neave, Ferris, B Sc.
Asst (Entom)

Lectrs

Lapage, G, M Sc, M B., Ch B
Wardle, R A, M Sc (Econ Z)

Medicine (for subjects of first 2
yrs —Anat, etc, v *supra*)

Bacteriology, v Path, Pub
Health

Cancer Research (Swindells Lab)

White, C P, M A, M D Camb,
F R C S (H) and Dir of Lab

Children, Diseases of [Lectr
Lapage, C P, M D, F R C P

Children, Surgical Diseases of
Rayner, H H, M B, Ch B,
F R C S (also in Clin Surgery)
Lectr

Dermatology [Lectr
Lancashire, G H, M D Bruss
Dyson, W, M D Asst Lectr

*Ear, Throat, and Nose, Diseases
of the* [Lectr

Milligan, Sir W, M D Aberd
Sewell, D L, M B, B S Lond
(Ear) (C)

Westmacott, F H, C B E,
F R C S (Throat and Nose)
(C)

Forensic M, v Path.

Gynæc, v Obst

Hygiene, v Pub. Health

Infectious Diseases [(C)
Sutherland, D. S, M D Glas

*Materia Med, Therap., and
Pharmacy*

Wild, R B, M D Lond., M Sc,
F R C P Leech Prof

Grier, J, M Sc Lectr & Demr
Leech, E B, M D Camb,
F R C P. Lectr

Roberts, Ivy, B Sc (Pharm and
Pharm. Chem.) Asst Lectr

Rawsthorne, F, L D S (Dent
M M) Lectr

Medicine, Clinical

Ramsbottom, A, M.D, D P H.,
F R C P Prof.

Brockbank, E M, M D, F R C P.
Lectr.

Tylecote, F E, M D, D P H
Lectr.

Melland, C H, M D Lond, B Sc
Lectr

Core, D E, M D (also in Neuro-
logy) Lectr

Oliver, T H, M D Lectr.

Medicine, Systematic

Murray, G R, M A, M D Camb,
M D Dub, D C L Durh,
F R C P Prof

Moore, F Craven, M D, M Sc,
F R C P Lectr

Mental Diseases

Orr, D, M D, C M Edin Lectr

Neurology, v. Med., Clin.

Obstetrics and Gynæcology

Donald, A, M A, M D Edin,
F R C P Prof (C)

Fothergill, W E, M A, B Sc,
M D Edin Prof

Shaw, W. F, M.D. Lectr.
Dougal, D, M D Asst Lectr

Chifford, H, M B, F R C S Edin
(C)

Ophthalmology

McNabb, H H, M D. Lectr (C).
Wharton, J, M D Camb (C)

Pathology and Path Anat
Dunn, J S, M A, M D Glas

Procter Prof.

Anderton, W. B, M B Lond (P
and Forensic M)

Lectr & Curator of Museum
Dible, J H, M B Glas.

(Bacteriology) Lectr

Ryrie, B J., M B Edin.

(Path A and Histology) Lectr
Loveday, G E, M A, M B, B C

Camb (Clin P) Lectr

Haworth, A, M Sc, M B, Ch B
(Chem P) Asst Lectr

2 Demrs

Pharmacy, etc, v Mat Med

Radiology

Barclay, A E, O B E, M D
Camb Lectr

Surgery, Clinical, v. also
Children's Diseases

Burgess, A H, M B, M Sc,
F R C S Prof

Roberts, C, M B, B S Lond,
F R C S Lectr and Asst

Buckley, J P, M A, M D, B C
Camb, M B, M S Lond,

F R C S (also in Regional
Dental Surgery) Lectr

Rayner, H H, M B, Ch B,
F R C S Lectr

Surgery, Operative

Wrigley, P R, F R C S Lectr

Wright, G, M B, Ch B Edin,
F R C S Lectr

Surgery, Practical

Roberts, C, M B, B S Lond,
F R C S Lectr

Surgery, Regional, v. Surg., Clin.

Surgery, Systematic

Telford, E D, M A, B Ch Camb,
F R C S Prof

Hey, W H, M B, F R C S
Lectr and Asst

Surgical Pathology [Lectr
Ray, J H, M B, Ch M, F R C S

Therapeutics, v. Mat. Med.

Tuberculosis

Marsden, R W, B Sc, M D,
D P H Lectr

Vaccination

Chisholm, Catherine, M D Lectr.

Veneral Diseases [Instr. (C).]

Macalpaine, J B, M B, Ch B

Reid, W J S, M A, M D, B Sc
Aberd Instr (C)

Whitehead, Gordon, M B, Ch B
Instr (C)

Wilson, A, F. R. C. S Instr (C)

Gibson, R, M D Edin Instr (C)

Dentistry

Lectrs. .

Rodway, B J, L D S (Mechanics
and Prosthetics)

Houghton, E, L D S (Operative
Surgery)

Headridge, D, L D S (Anatomy,
Histology, and Physiology)

Thompson, Prof (v Met)

Campion, G G, L D S (Ortho-
dontics)

Simms, H, M D, L D S (Path
and Surg)

Wild, Prof (v Med, Mat Med)

Rawsthorne, F, L.D.S. (Mat
Med)

Dunn, Prof (v Path) (Bacterio-
logy)

Buckley (v Surg, Clin).

Public Health

*Bacteriology and Preventive
Medicine* [Prof

Topley, W W C, M A, M D
Camb, F R C P (Prof of
B and Dir. of P H Lab)

(C.) = Clinical Lectr.

Sidebotham, E J, M.A., M B
Camb Hon Lectr. in P H
Sellers, A, M.D Edin, D P H
Lectr (Comp. Path)
Nutt, Muriel M Demr. in Bact.
Heap, H, M Sc (San and Bact
Chem) Sen Lectr
Dawson, G D, M D, D P H
Lectr.
Wilson, G S, M D, B S, D P H
Lectr.

2 Research Assts

Administration

Butterworth, J J, M D, D P H
Lectr in Hygiene and A
Brindley, A E, M D Lond, B Sc,
D P H Lectr

Factory Hygiene

Legge, T M, M A, M D Ox,
D P H Lectr.

School Hygiene

Young, M, M D Edin, D P H
Lectr

Vet Hygiene

Woods, W, F R C V S Lectr

Technology

Jones, B Mouat, M A Ox, Prin-
cipal of the College of Tech
and Dean of the Faculty

Architecture, v supra

Chemistry, Applied

Pyman, F L, Ph.D Basle, D.Sc.,
F I C, F R S

Prof of Technol C
Knecht, E, M.Sc.Tech, Ph D
Zur, F I C, Assoc Prof

Lectrs

Grant, J, M Sc Tech., F I C
Sinnatt, F S, M.B.E., M Sc Tech,
F I C., M I Min E (Fuels)
Radcliffe, L G, M Sc Tech, F I C
Wood, J K, D Sc, F.I.C.
(Physical C)

Hibbert, Eva, M Sc Tech.
Asst Lectr.

Craven, May B., M Sc Tech
Asst Lectr

Hepburn, G G, B Sc St. And,
Ph D Basle Spl Demr.
8 Demrs

*Dyeing, Bleaching, and Printing
and Paper Manuf* [Lectr.

Huebner, J, M Sc Tech, F I C
Rowe, F M, D Sc Leeds, F I C
Lectr

Engineering, Electrical

Walker, Miles, M A. Camb, D Sc.
Lond, M I E E Prof

Lectrs

Langton, J L, M Sc, M I E.E.
Moore, A E, M Sc Tech, M I E E
Clayton, A. E, D Sc (Eng) Lond.,
A M I E E.

Asst Lectrs

Palmer, L S, M Sc, Ph D. Brist.
Glynne, A, M A Camb
Shelley, H J, B Sc
1 Demr

Engineering, Mechanical

Stoney, G G, M A I Dub,
D Sc Durh, C*, M*, E*,
F R S Prof

Lectrs

Jordan, H G., M Sc Tech.,
A R C S I, M*

Petrie, P T, M Sc Leeds, c*, m*
Popplewell, W C, M Sc, c*

Smith, Dempster, M B E,
M Sc Tech, M*

Jones, T H, M Sc, m*,
A F R Ae S (Eng Drawing).

Boswall, R O, B Sc Eng. Lond,
m*, A F R Ae S.

Anderson, R. M, A G.T.C.,
M Sc Tech

Threlfall, H, M.Sc Tech,
A R C S I

Asst Lectrs & Demrs

Edmondson, A. R, M Sc, c*, m*

C*, E*, M*=M I C E., M I E.E., M.I.Mech.E., c*, e*, m*=A M I C E., etc.

Ferguson, R. M , M.Sc.	<i>Photographic Tech</i>	[Lectr.
Bevan, T , M Sc Tech.	Gamble, C W , O B E , M Sc Tech	
Carrington, H , B Sc , M Sc Tech , m *	<i>Physics</i>	[Lectr.
<i>Engineering, Sanitary</i>	Gee, W W Haldane, B Sc Lond , M Sc.Tech , A M I E E	
Coleman, G S , D Sc (Eng) Lond , c * Lectr	Adamson, A , M Sc Tech , A R C S Lectr	
Flood, G M , B Sc (Eng) Cape Town, c * , A M I Struct E Asst Lectr.	Mercer, H N , M A. Tor , B Sc Lond Asst Lectr	
<i>Languages (Modern)</i>	Anderson, W , B Sc Glas ,, "	
Kirk, A , M.A Camb Lectr.	<i>Textile Industries</i>	
<i>Mathematics</i>	Myers, W , M Sc Tech Lectr	
Prescott, J , M A , D Sc Lectr	Winterbottom, J , M Sc Tech Lectr	
Bowman, F , M A Camb , M Sc Tech Lectr	Cadness, H (Design) (S)	
Barratt, W S , A R C S I., A I C Asst Lectr	Hanton, W A , M Sc Tech (T Engin) Lectr	
Tilsley, H , B Sc (Eng) Lond. Asst. Lectr	Dust, Emily R (Design) Asst Lectr	
<i>Metallurgy & Assaying</i>	Booth, J H , B Com (S)	
Rhead, E L , M Sc Tech , F I C , M Am I M E Lectr	University Extension	
Mohn, G , M Sc Tech Demr	About 20 Tutors	

C *, E *, M *= M I C E , M I E E , M I Mech E , c *, e *, m *= A M I C E , etc

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY originated in the Mechanics' Institution, founded in 1824, and developed between 1879 and 1912 under the direction of J H Reynolds as the Technical School (1883) and Municipal School of Technology (1901). In 1903 were completed, with the help of benefactions from the estate of Sir Joseph Whitworth, buildings covering 7300 sq yards in the centre of the city and worth with their equipment £400,000. It became connected with the Univ of Manchester in 1905 through the constitution of a Faculty of Technology, the greater part of the work of which is conducted in the College, whose Principal is Dean of the Faculty.

COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY PRIMITIVE METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, UNITARIAN HOME MISSIONARY COLLEGE, and UNITED METHODIST COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; WESLEYAN COLLEGE, Didsbury.

Recognized for instruction in Maths , Physics, Chem , and Biol. up to Interim. standard for B Sc. and B.Sc.Tech. the HARRIS INSTITUTE, Preston

For third year of B Sc.Tech. course in Mining the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

GENERAL INFORMATION

Owens College, named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester School of Medicine was united with it in 1872. The Charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent Coll. of the Univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent Colls. A new Charter was issued on July 15, 1903, reconstituting the Univ. under the name of the Vict. Univ. of Manchester and freeing it from liability to admit or remain in association with any Coll. other than Owens, and on June 24, 1904, the Act for the incorporation of Owens Coll. with the Univ. was passed. The Univ. Press was established in 1902.

In 1905, on the establishment of the Faculty of Technology, the work of Univ. standard at the Municipal School (now College) of Tech. was included in the Univ.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The athletic ground (30 acres) is at Fallowfield, about $1\frac{1}{2}$ miles distant.

LIBRARIES The main (Christie) library (over 180,000 vols.) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Manchester Medical Society's Library (47,000) is housed in the Medical School, where it is available for students. The John Rylands (250,000) includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (70,000) has valuable mediæval MSS. and printed books of seventeenth and eighteenth centuries. The Municipal Reference Library (194,000) is valuable for more recent books and periodicals.

LABORATORIES, ETC. Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. The Fielden School is organized mainly for demonstration, training, and research in Educn. The Manchester *Museum*, forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospis. including the Christie Cancer Pavilion. The Howard Estate *Observatory* in the Peak District is for investigation of the Upper Atmosphere.

FACULTIES Arts, Science, Law, Medicine (including Dent, Pharm., and Pub. Health), Music, Commerce, Theology, Technology (provided by the Municipal College of Technology), Education. There are Advisory Committees for Archit., Mining, Tech., Commerce, Theol., Pub. Health, Leg. Educn., Colloids, and for Training Teachers of the Deaf.

DEGREE COURSES 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.Com., B.D. (after Interim courses in Arts), B.Sc. Tech., 5 yrs.—B.A. (Hons. in Archit.), M.B., Ch.B., B.D.S. The B.Com. course can be completed by attendance on evening lectures.

Honours students of modern foreign languages may be permitted to count attendance on approved courses during one term at a foreign Univ as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

HIGHER DEGREES. Open to Bachelors of 1 yr. standing—M.A, M Sc (2 yrs. if graduates of other Faculties), LL M (2 yrs), Ch M, M D, M D S, M Com, M Sc Tech, 2 yrs—M Ed, 4 yrs—Litt D, D Sc, LL D, Mus D, D D

Open to graduates of other approved Univs through research in Manc during 2 (non-graduates 3) yrs—M A, M Sc, LL M, M Com, M Sc Tech, M Ed (open only to graduates) Graduates of other approved Univs of 4 yrs' (D.D. 6 yrs') standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs in study or research in Manc may qualify for the Litt.D, D.Sc., LL D, D.D.

The Ph D differs from the Litt D and D Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M A, M Sc, and M.Sc.Tech (v. p 14)

DIPLOMAS. Geog (grads), 1 yr course; D V S M, open to M R C V S only, 6 mos, Psych Med 1 yr, including 2 terms at the Univ.; D P H 1 yr, Teacher's (grads), 1 yr, L D S, 4 yrs, Dp Bact (1 yr post-grad.)

CERTIFICATES. Engin, 3 yrs' course, Applied Chem, 3 yrs, Archit, 3 yrs.; Mining, Factory or School Hygiene (subsequent to obtaining D P H), Higher Commercial, 2 yrs (grads 1 yr), Theol, 3 yrs, Biblical Knowledge, 1 yr; Tech (Assoc Coll Tech.), 3 yrs, Tech (Distinction), 4 yrs, Photog Tech, 2 yrs Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn

Certif. in Mining and the B.Sc.Tech in Mining are accepted by Govt in lieu of 2 out of 3 yrs.' practical experience for Mine Manager's Certif.

SPECIAL COURSES ON Tuberculosis for Med and Vet. practrs

SCHOLARSHIPS, ETC., FOR GRADUATES A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Chemistry, £300 and £100, Economics, £70, Engineering, two of £200 each, Diseases of Children, £100, Physics, £175, Prev Med, £300—are open to foreign students, others—in Industry and Comm, £200, History, £50—are open to British subjects who have graduated at other Univs Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded

FEES Matricn, £2 Tuition, per session, including Students' Union and Athletic Union fees for B A course, 26 gs (Hons in Archit, first 3 yrs £42 per session, 4th and 5th yrs £28 per session), B Sc, 31 to 41 gs (Hons. in Maths, 26 gs), M B, Ch B (5 sessions), 140 gs, *plus* Hospl. fees, 76 gs., LL B. (3 sessions), 37 gs., B D, about 13 gs, B Com, 16-19 gs, Mus B, about 14 gs, B D S, 93 gs, *plus* Hospl. fees, 175 gs, L D S, 83 gs, *plus* Hospl fees, 135 gs, (35 gs if approved instrn recd from regd dentist), B Sc Tech, £40-£60, Teacher's Dipl, £35 Examn fees Med, 32 gs, others (Inter-term and Final) for first degrees about 6 gs (B Sc, 4 to 5 gs) Graduation fees, 8 gs (Doctorate 15 gs, except Ph.D. £5)

Research fees, 7 to 10 gs per session in Arts, Commerce, and Law, Educn, 4 gs; higher fees for other science students.

HOSTELS For men . Hulme Hall (Warden), £70 to £97 10s per session ; Dalton Hall (Principal), £108 , St. Anselm's Hall (Warden), £99 , Lancashire Independent College (Principal), £87 For women (122) Ashburne Hall (Warden), 64 to 70 gs , Ward Hall (Warden) , Lees Hall (Warden) (both under Ashburne Hall Delegacy) , Langdale Hall (Warden), chiefly for women training students, whose fees are £42, private students £70 , Ellis Llwyd Jones Hall, special hostel for students in training as teachers of the deaf, £70 , St Gabriel's Hall (Warden), £55 to £65

INDIAN STUDENTS. Adviser—J. K. Wood, D Sc.

ADULT EDUCATION The Committee for the organization of the Extramural work of the Univ and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ itself, and at other Centres Public Lectures, Univ Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed

PERIODICAL PUBLICATIONS. *Calendar* (Sept), 2s 6d , *Prospectus of Advanced Studies* , *Examn Papers*, 6d. to 1s 6d a set, by Faculties ; *The French Quarterly*, 3s , *Bulletin of John Rylands Library* , *Technology* (pub at Coll of Tech) , *Journal of Manc Egyptian and Orient Soc* , Pubns of Chetham Society, Manchester ; Pubns. of Brit Soc. of Franciscan Studies. Students' Pubns *The Serpent* (magazine), *The Circle* (Literary), *Science Fed Journal*, *Medical School Gazette*

THE YEAR 1922-23

SPECIAL EVENTS Resignation of Chancellor, Viscount Morley, and election of Earl of Crawford and Balcarres

BENEFACTIONS R D MacLaren bequest, £1000 for research in connexion with cotton industry , Henry Harrison bequests, £5000 and, for promoting study of Chinese, £1000 , Mrs Bythway, £1000 for scholarships , Col. E W. Mellor, £1000 towards endowment of Chair of Geography , Anon, £80 for scholarship in Italian , Manc Society of Architects, £600 for endowment of School of Archit , Brunner, Mond & Co , Ltd , £987 for apparatus, etc for research , Alexi Muir's Exors, £500 (addition to previous benefaction) for Haworth Library , Lewis's, Ltd , £1000, second contribution to Scholarship Fund and Commerce Library Fund , Nat Institute of Industrial Psychology, £50 for Psychology , Empire Cotton Growing Assocn , £1000 p a for 5 yrs for special studv of Plant Pathology, Mycology, and Entomology , several cotton firms, £12,000 for study of Colloids

GRANTS from local authorities Manc, £8000 , Lancs, £2000 , Cheshire, £500 , Bolton, £400 , Salford, £500 , Bury, £100 , Oldham, £150 , Stockport, £100 , Wigan, £250

NEW BUILDINGS Addition to Ashburne Hall of Residence (to be completed Oct 1924) , Athletic ground pavilion , Univ. Press moved to larger building

NEW POSTS AND DEPARTMENTS Lectr in Colloid Physics and in Chemistry ; Colloids Research Laboratory , Lectrs in Neurology and in Radiology

OTHER DEVELOPMENTS Post-graduation Diploma in Bacteriology , Honours School in Geography in Faculty of Arts , Geog. added to list of subjects for B Sc Final , higher courses in Technology inaugurated , Arnold Library purchased from Nat. College for Teachers of the Deaf , Lancashire

Independent College recognized as a Hall of Residence, arrangements for broadcasting public lectures, representation of junior staff on Council, Luncheon Club (City, Univ, and Professions)

Co-OPERATION Conference of Wardens of Halls for Women students at Ashburne Hall in Jan, attended by Wardens from 9 Univs and Colls, Consultative Committee in Architecture representing Univ, Manc Soc. Arch, and Manc Branch of Builders' Inst established in place of Joint (Univ and Manc Educn Authority) Committee on Archit *Interchange of Professors* Prof Weiss to Basle, 1923, Prof Senn from Basle, 1924

VISITORS FROM ABROAD President N M Butler of Columbia Univ, Profs Deissmann of Berlin, Lorentz and de Sitter of Leyden

VISITS OF REPRESENTATIVES OF PUBLIC BODIES Inst of Elec Engineers, Nat Union of Students, Inst of Metals.

DEATHS Sir T. T Shann, J Radcliffe, H T Burt, R W Palmer, J T Marshall

RESIGNATIONS G H Livens, appointed Prof in Univ Coll, Cardiff, J L Brierly, apptd Prof of Internat Law at Oxford, A V Hill, apptd Prof of Physiology in London, succeeded by H S Raper from Leeds, E G Gardner, apptd Prof of Italian at Univ Coll, London, succeeded by P Rébora from Liverpool, W J Perry, apptd Reader in Univ Coll, London, R S Adamson, apptd Prof of Botany, Cape Town

HONORARY DEGREES *LL D*—Lord Hewart of Bury, Arthur Watson, *Litt D*—W E Johnson, C Bémont, *D Sc*—F Gowland Hopkins, W. B Worthington, *M Ed*—Grace Owen

OTHER DFGREES B A, 99, M A, 34, B Sc, 170, M Sc, 47, D Sc, 3, LL B, 7, LL M, 2, M B, Ch B, 50, M D, 6, Mus B, 3, B Com, 32, M Com., 6, B D, 2, B Sc Tech, 94, M Sc Tech, 30, M Ed, 3, Ph D, 3

STUDENTS Faculty of Med, 711 (including women—146), Tech, 339 (1 woman), all other faculties, 1610 (women—581) In addition there were 360 attending evening classes

EXTRA-MURAL WORK 31 Tutorial and 5 one-year classes, 6 in Manc, 2 in Buxton, 1 in each of 28 other towns 25 Tutors employed Attendance at Bangor Summer School in 1922—118 (39 women), with 24 tutors and lectrs in residence Public Lectures (attendance 3000) on Aspects of the Modern Drama (6), Anthropology (5), Art of Building (2), and 8 others Univ Extension Lectures (attendance 700) at the Univ.—8 courses in Teaching of Subjects in Schools, Music Appreciation, Early Civilization, Psychology, Early Christian Art, and Life, Work, and Art, in 6 other centres—courses in Study of Arts and Crafts, English Literature, Psychology, Civilization, Pictures in Manc Galleries, Geography

UNIVERSITY OF OXFORD

CHANCELLOR—The Most Hon. MARQUESS CURZON OF KEDLESTON,
D C L. All Souls

HIGH STEWARD—Right Hon EARL OF BIRKENHEAD, B C L , M A , Hon.
D C L

VICE-CHANCELLOR—J WELLS, M.A , Warden, Wadham College

REPRESENTATIVES IN PARLIAMENT (BURGESSES OF THE UNIVERSITY)—
LORD HUGH R H CECIL, M A Hertford , Sir CHAS W C
OMAN, M A All Souls

PROCTORS—W PHELPS, M A Corp , D C SIMPSON, B D , M.A. Keb.

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E S CRAIG, M.A. Magdalen

COLLEGES

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BRASENOSE ,,	<i>Principal</i>	C H SAMPSON, M A
CHRIST CHURCH	<i>Dean</i>	H J WHITE, D.D
CORPUS CHRISTI COLLEGE	<i>President</i>	T. CASE, M.A.
EXETER ,,	<i>Rector</i>	L R. FARNELL, M.A , D Litt
HERTFORD ,,	<i>Principal</i>	W. R. B. RIDDELL, M A.
JESUS ,,	,,	E. G HARDY, M A , D.Litt.
LINCOLN ,,	<i>Rector</i>	J A R. MUNRO, M A
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NEW ,,	,,	W. A. SPOONER, D D.
ORIEL ,,	<i>Provost</i>	L R. PHELPS, M.A

PEMBROKE COLLEGE	<i>Master</i>	F. HOMES DUDDEN, D.D.
QUEEN'S ,,	<i>Provost</i>	J. R. MAGRATH, D.D.
ST. JOHN'S ,,	<i>President</i>	H. A. JAMES, D.D.
TRINITY ,,	,,	H. E. D. BLAKISTON, D.D.
UNIVERSITY ,,	<i>Master</i>	SIR MICHAEL E. SADLER, K.C.S.I., M.A.
WADHAM ,,	<i>Warden</i>	J. WELLS, M.A.
WORCESTER ,,	<i>Provost</i>	F. J. LYS, M.A.
ST. EDMUND HALL	<i>Principal</i>	G. B. ALLEN, D.D.
KEBLE COLLEGE (New Foundation)	<i>Warden</i>	B. J. KIDD, D.D.

Censor of Non-Collegiate Students—J. B. BAKER, M.A.

PRIVATE HOSTELS

CAMPION HALL	<i>Licensed Master</i>	J. H. KEANE, M.A.
ST. BENET'S HALL	,, ,,	P. J. McCANN, M.A.

RECOGNIZED SOCIETIES OF WOMEN STUDENTS

LADY MARGARET HALL	<i>Principal</i>	MISS LYNDIA GRIER, M.A.
SOMERVILLE COLLEGE	,,	MISS E. PENROSE, O.B.E., M.A.
ST. HUGH'S COLLEGE	,,	MISS E. F. JOURDAIN, M.A.
ST. HILDA'S HALL	,,	MISS WINIFRED H. MOBERLY, M.A.
SOCIETY OF OXFORD HOME STUDENTS	,,	MISS CHRISTINE M. E. BURROWS, M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Agriculture</i> , v p 179	<i>Anthropology, Physical</i> [Lectr.
<i>Anatomy</i> , v also Zoology	Buxton, L. H. D., M.A. Exe
Thomson, A., M.A. Ch. Ch.	Blackwood, Beatrice, B.Sc., M.A.
Lee's Prof	Som Asst.
Dodds-Parker, A. P., B.M., M.A.	<i>Anthropology, Social</i> [Reader.
Magd (Applied A.) Lectr.	Marett, R. R., M.A., D.Sc. Exe
Wagstaffe, W. W., B.M., M.A.	
New Demr	<i>Archæology</i> , v also Orient
Hall, A. H., M.B. Birm. Asst.	Langs and Papyr
Carleton, Mrs., M.A., O.H.S. Asst.	Gardner, P., M.A., D.Litt. Linc.
	(Classical A. and Art)
<i>Anglo-Saxon</i>	Linc. & Mert Prof
Craigie, W. A., M.A. Or.	Casson, S., M.A. New (Classical
Rawlinson and Bosworth Prof.	A) Lectr.

Evans, Sir Arthur J, M A,
D Litt., B N C (Prehist. A)

Prof

Beazley, J D, M A Ch Ch
Lectr (Gk vases)

Aramaic, v. Orient

Art [Ruskin Master

Carline, S W (Drawing)

Hind, A M, M A Camb (Fine
Art) Slade Prof

Assyriology, v Oriental Lan-
guages

Astronomy [Savilian Prof

Turner, H H, M A, D Sc New

..... Radcliffe Observer

Joly, J, D Sc, F R S

Halley Lectr

Bio-Chemistry [Whitley Prof

Peters, R A, M A Trin

Whitley, E, M A Trin Demr

Raiment, P C, B A Univ Demr

Peskett, G. L, B A. New Demr

Botany

Keeble, Sir F W, C B E, M A

Magd Sherardian Prof

Church, A H., M A. Jes

Lectr & Senr Demr

Snow, G R S, B A Demr

Celtic

Fraser, J, M A Jes. Jesus Prof

Chemistry [Waynflete Prof.

Perkin, W H, M A Magd

Sidgwick, N V, M A Linc.

Reader

Marsh, J E, M A Mert Demr

Hope, E, M A Magd. Demr.

Hammick, D Ll, M A Oriel

Demr.

Plant, S G P, M A, B Sc,

D Phil Magd Demr.

Taylor, T W J, M A B N C

Demr

Ing, H R, B A New Coll Demr.

Soddy, F, M A Ch Ch

Lee's Prof

Lambert, B, M A Mert.

Aldrichian Demr.

Walden, A F., M A. New College

Demr

Bird, O S, B A Mert. Demr.

Hartley, E G J, M A. Ch Ch

Demr.

Applebey, M P, B Sc, M A St J.

Demr

Lanyon, J A, B A. New Coll.

Demr

Edmonds, H. R O, B A B N C.

Demr

Farrow, Eliz M O, B A. St H

Demr.

Classics, v. also Arch

Murray, Gilbert, M A, D Litt

Ch Ch (Greek) Reg Prof

Tod, M N., M A Or (Greek Epi-
graphy) Lectr

Clark, A C, M A C C C (Latin)

Corpus Prof

Anderson, J G C, M A Ch Ch

(Roman Epigraphy) Lectr

. . . . Research Student in

Greek Lit.

Crystallography, Chem

Barker, T V, B Sc., M A. B N C

Lectr

Diplomatic

Poole, R L, M.A. Magd. Lectr.

Divinity, v. Theology

Economics, v Pol Econ.

Education

[Reader

Keatinge, M W, M A, D Sc Exe

Hendy, F. J R, M A Linc.

Dir. of Training

Icely, H E M, M A B N C

Asst Lectr

Talbot, Elfrida M, M A. St. Hu.

Lectr & Tutor.

Egyptology, v Orient

Engineering Science, v also Sur-
veying

Jenkin, C F., M A B N.C. Prof

Thomas, W. N., M.A., D.Phil.

B.N.C.

Demr.

Hemingway, G. Y , B A. Hert
Demr

English

Gordon, G S , M A.
Mert (E Lit) Prof
Wyld, H C K , B Litt , M A.
Mert (E Lang and Lit)
Merton Prof
Smith, D Nichol, M A Mert
Goldsmiths' Reader

Simpson, P., M.A Or Lectr
Onions, C T , M A Magd Lectr
Wilson, F P , B Litt , M A. Linc
Lectr.

Forestry, v also Surv

Troup, R S , M A , D Sc St J [Prof
Bourne, R , M A. Trin Asst
Hiley, W E , M A Qu (Diseases
of Trees) Research Offr

French

Rudler, G., Dr. ès L Paris (Fr
Lit), M A Worc Foch Prof
Taylorian Lectrs
Berthon, H E , M V O , M A
Wadh (Senior Lecturer).
Waters, E G R , M A Keb
Ewert, A , M A St J

Genetics, v Zool

Geography, v also Surv

Beckit, H O , M A Ball Reader
Cossar, J , M A Exe Lectr
MacMunn, Nora E , M A
Soc O H S Asst Lectr
Tutors

Kendrew, W G., M A Non-Coll
Knox, H V., M A Exe and C C C
Knowles, Sir F H , Bart , B Sc ,
M A

Geology and Palæontology

Sollas, W. J , M A. Univ Prof
Douglas, J. A., B.Sc , M.A Keb
Demr

Button, G T , M A New Coll.
Demr
Bayzand, C J., B A. Non-Coll.
Demr

Geometry

[Savihan Prof
Hardy, G. H., M A New Coll

German

[Taylorian Prof.
Fiedler, H. G., M V O , M A. Qu.
(G Lang and Lit.)
Montgomery, M., M.A , B Litt
Linc Taylorian Lectr.

*Greek, Byzantine and Modern,
Lang. and Lit*

Dawkins, R McG , M A Exe
Bywater & Sotheby Prof

Hebrew, v. Orient

History, American

Morison, S E , M A
Harold Vyvyan Harms-
worth Prof

History, Ancient, v also Archæol

Jones, H Stuart, M A , D Litt ,
B N C Camden Prof
Myres, J L , M A New Coll
Wykeham Prof

History, Colonial [Beit Prof

Coupland, R , M A Trin
Wrong, E M , M A Magd
Beit Lectr

History, Eccl, v Theology

History, Econ, v Pol Econ.

History, English [Ford's Lectr.
Kingsford, C L , M A St J.

History, Indian

Lovett, Sir H V , K C S I , M A
Worc Reader

History, Military, v Milit.

History, Modern, v also Dipl.

Firth, Sir Charles H , M A Or
Reg Prof.
Oman, Sir C. W C , K B E., M.A.
All S Chichele Prof

Trevelyan, G. M , C B E., Litt.D
Durh Sidney Ball Lectr.

Italian

Foligno, C , M.A. Qu Serena Prof
Del Re, A , M A. Ball.
Taylorian Lectr.

Law, v *infra*

Logic

[Wykeham Prof
Joachim, H. H., M A New Coll

Mathematics, Pure
Dixon, A L., M A. Magd.
Waynflete Prof.

Mathematics, Applied [Lectr
Pidduck, F. B., M A. C C C.

Medicine, v infra

Meteorology [Lectr.
Dobson, G. M B., M A. Linc.

Military History
. . . . Chichele Prof.

Mineralogy, v. also Crystal.
Bowman, H. L., M A., D Sc.
Magd. Waynflete Prof

Music [Prof
Allen, Sir H P., M A., D Mus New
Ley, H., M A., D Mus Ch Ch
Choragus (Asst to Prof)

Oriental Languages, v infra

Palæography
Lowe, E A., M A., C C C Lectr

Papyrology
Hunt, A S., M A., D Litt Qu Prof.

Philology, Comparative
Wright, J., M A Exe Prof.

Philosophy, Expl [Lee's Prof
Lindemann, F. A., M A Ch Ch.
Griffith, I O., M A. B N C Demr
Dobson, G M B., M A Linc
Demr
Atkinson, R. d'E., B A Hert
Demr

Philosophy, Mental, v also
Logic
Brown, Wm., D M Ch Ch
Wilde Reader

Philosophy, Moral, & Metaphys
Smith, J. A., M A Magd
Waynflete Prof
Santayana, G., M A., Ph D
Herbert Spencer Lectr.

Philos., Moral [White's Prof
Stewart, J A., M A C C C
Ross, W D., M A Or. Depy Prof

Philos., Natural [Sedleian Prof
Love, A E H., M A., D.Sc Qu

Physics [Wykeham Prof
Townsend, J. S E., M A. New
Lattey, R. T., B Sc., M A Trin
Demr.
Gill, E W B., B Sc., M A Mert.
Demr.
Morrell, J H., M A. Magd Demr.
Biggs, H F., M A Trin. Demr.
Bailey, V A., M A Qu Demr.
Hume - Rothery, J H., M A.
(Camb) Demr.

Physiology, v also Medicine
Sherrington, Sir Charles S., G.B.E.,
M A., Hon D Sc Magd.
Waynflete Prof.

Priestley, J G., D M
Welch Lecturer
Douglas, C G., B Sc., D M St J
Demr
Liddell, E G. T., B M., M A
Trin Demr.
Carleton, H M., B Sc., M A New
Coll Demr
Haynes, F., B A Non-Coll Demr.

Poetry [Prof
Garrod, Heathcote W., M A Mert

Political Econ [Drummond Prof
Macgregor, D H., M A. All S.
Lipson, E., M A., New Coll (Ec.
Hist) Reader.

Political Theory and Institns.
Adams, W G S., M A All S
Gladstone Prof

Religion, v also Theology
Selbie, W B., D D., B N C (Nat.
and Comp R) Wilde Lectr

Romance Lang. [Taylorian Prof.
Studer, P., M A. Exe

Russian [Prof and Reader.
Forbes, N., M A. Ball.

Spanish
de Arteaga y Pereira, Don
Fernando, M A Worc
Prof and Taylorian Lectr.
Kolkhorst, G A., B A. Exe
Taylorian Lectr

Spectroscopy [Prof & Reader.
Merton, T R, M.A., D Sc Ball

Surveying (for Engin, Forestry,
and Geog. Students)
Mackenzie, N. F, Hon M A Instr

Thermodynamics [Reader
Egerton, A. C. G., M A. Ball.

Zoology and Comp Anat., v. also
Rural Econ.

Goodrich, E S., M A Mert

Linacre Prof
Poulton, E B, M A, D Sc Jes
(Zool) Hope Prof

de Beer, G R., B A, B Sc. Mert
Demr

Baker, J R, B A New Coll
Demr

Elton, C S, B.A New Coll
Demr.

Huxley, J. S, M A New Coll
Lectr in Genetics and Demr.

Law

Civil

De Zulueta, F, M.A., D C L
All S Reg Prof

Criminal, and Evidence

..... Lectr

English

[Vinerian Prof
Holdsworth, W S, D C L. All S
Hazel, A E W, C B E, B C L,
M A Jes All Souls Reader

Indian

Woodroffe, Sir J G, B.C L, M A
Univ Reader

Internat, and Diplomacy

Brierly, J L, B C L, M A All S
Chichele Prof.

Internat (Private)

Cheshire, G C, B C L, M A Exe
Lectr.

Jurisprudence

Vinogradoff, Sir Paul, M A, Hon.
D C L, C.C.C. Corpus Prof.

Roman

Jolowicz, H F., M A

All Souls Reader

Roman-Dutch [Rhodes Prof

Lee, R. W, D C L Ball

(Reader at Inns of Court)

Medicine (for subjects of the first
2 yrs — Anat, etc, v *supra*)

Anatomy, Morbid

Gibson, A G, D M Ch Ch Lectr

Clinical Physiology

Priestley, J G, D M Ch Ch
Christopher Welch Lectr

Medicine

Garrod, Sir A. E, K C.M.G, D.M.
Ch Ch Reg Prof

Gibson, A G, D M Ch Ch
Litchfield Lectr

Other Clinical Instructors in
Med and Surg

Waters, W A. P, D M

Dodds-Parker, A P, B M, M A

Whitelocke, H A B, B M, M A

Collier, W T, D M

Whitelocke, R H A, Hon M A

Hobson, F G, D M

Mallam, E, D M

Turrell, W. J, D M

Sankey, R H, B M, M A

Bervers, E C, B M, M A

Girdlestone, G R, B M, M A

Duigan, W, M A

Ophthalmology

Adams, P E H, B M, M A Exe
Margaret Ogilvie's Reader

Pathology, v also Anat. [Prof

Dreyer, G, C.B E, M A. Linc

Walker, E W A, D Sc, D M

Univ Dean of Med Sch Lectr

Pharmacology [Prof & Reader.

Gunn, J A, M A Qu

MacKeith, M H, B M, M A

Magd Demr

Surgery

..... Litchfield Lectr.

Oriental Languages

Arabic [Laudian Prof
Margolouth, D. S., D Litt New

Aramaic [Lectr.
Stenning, J. F, C B, M A Wadh

Assyriology [Shillito Reader
Langdon, S, M.A Jes Prof &

Bengali
Thompson, E J Lectr

Burmese
Rigg, A. E, M.A. Corp. Lectr.

Chinese
Soothill, W E, M.A Trin Prof

Egyptology
Griffith, F L, M A Qu Reader

Hebrew [Reg Prof
Cooke, G A, D D Ch Ch
Loewe, H M J, M A Exe
(Rabbinic H) Lectr

Hindustani
Dewhurst, R P, M A Ball Lectr

Marathi
Jopp, C H K, M A New Lectr

Persian
Levy, R, M A Jes Lectr.

Sanskrit [Boden Prof
Macdonell, A A, M A Ball
Morrison, J, M A Ball Lectr

Tamil and Telugu
Roberts, S G Lectr

Rural Economy

Somerville, W, M A, D Sc St J
[Sibthorpe Prof
Peel, W R, M A Ball

Lectr in Agr.
Ellis, J C B, M A Jes Demr
Doyne, H C, M A Trin Demr

Agr. Botany [Lectr
Bancroft, Helen, D Sc Lond.

Agr Chemistry [Reader
Morrison, C G. T, M A Ball.

Agr. Economics, v. also Farm
Ashby, A W., Hon. M A, Dipl.
Econ. Lectr.

Agr History
Lennard, R V, M A Wadh Lectr

Agr Law [Lectr.
Hilliard, E, B.C.L, M.A Ball

Co-operation [Lectr
Hart-Synnot, R V O, M A, St J

Economic Zoology
Cunliffe, N., M A Wadh
Christopher Welch Lectr.

*Economics, History and Sur-
veying*
Amery, G D, M A B N C. Lectr

Farm Acctcy and Loc. Govt.
Orwin, C S, M A Ball (Dir. of
Inst for Research in Agr
Economics) Lectr.
8 Assts and 2 Research Scholars.

Estate Management [Lectr
Thring, D T, Hon M A Mert.

Local Govt and Land Tenure
James, W E C, B A Magd Lectr.

Theology

Bib Studies [Speaker's Lectr
Bevan, E R, M A. New Coll

Divinity [Reg Prof.
Goudge, H. L., D.D Ch. Ch
Lock, W, D D Keb

Margaret Prof
Williams, N. P., B D, M A New
Coll Bampton Lectr.

Eccles History [Reg Prof
Watson, E W., D D Ch Ch

Exegesis [Dean Ireland's Prof
Turner, C H, M A Magd.

Interpretation of Holy Script
Burney, C F, M A, D Litt Or
Oriol Prof

Liturgyology [Lectr.
Brightman, F E, M A Magd.

Septuagint [Grinfield Lectr
Davies, A Ll, M A Qu

Pastoral Theology [Reg Prof
Otley, R L., D D Ch. Ch

University Extension

Philos of Christian Religion
Webb, C. C. J, M A Oriel
Oriel Prof.

Lecturers employed under the
direction of the Extra-mural
Studies Delegacy (about 30),
v. pp. 195, 198

THE COLLEGES

ALL SOULS COLLEGE Founded 1437 Warden—F W Pember, D C L
Fellows Abel-Smith, L R, M A, Adams, W G S, M A, Prof of Pol.
Theory, etc, Beckett, W. E, B A, Brand, Hon R H, C M G, M A.,
Bridges, E E, M A, Brierly, J L, M A., B C L., Prof. of Internat. Law,
Cholmondeley, F G, M A, Corbett, P E, B A, Coupland, R, M A, Prof
of Col History, Craster, H. H. E, M A, D Litt, Curtis, L G, M A,
Dawson, G G, M A, de Zulueta, F, D C L, Prof of Civil Law, Edgeworth,
F. Y., M A, Egerton, H E, M A, Faber, G C, M A, Bursar, Hancock,
W K, B A, Harris, C R S, M A, Holdsworth, W S, D C L, Prof of Engl.
Law, Holland, Sir T E, K C, D C L, Jacob, E F, M A., Johnson, A H,
M A, Lang, Rt Hon and Most Rev C G, M A, Hon D D, Lawrence,
T. E, C B, B A, Lee, R W, D C L, Prof of Rom -Dutch Law, Lucas, Sir
C. P, K C B, K C M G, M A, Macgregor, D H, M A, Prof of Polit Econ,
Malcolm, D O, M A, Morrah, D MacG, M A, Oman, Sir C W C, K B E,
M A, Librarian, Prof of Mod Hist, Pollard, A F, M A, Radcliffe, C J,
B A, Robertson, C G, C V O, M A, Simon, Rt Hon Sir John A, K C V O,
K C, M A, Somervell, D B, M A, Dean, Sumner, B H, M A., Trevelyan,
Sir Ernest J, D C L, Sub-Warden, Wilkinson, H Spenser, M A, Wood-
ward, E Ll, M A

BALLIOL COLLEGE Founded 1263-1268 Master—A L Smith, M A,
Jowett Fellow

Fellows Bailey, C, M B E, M A, Jowett Fellow, *Classics* * and Tutor for
admissions, Bell, K N., M A, *Mod Hist* *, Gibbon, H H, O B E, M A,
Chaplain, Catech Lectr, Hartley, H B, C B E, M A, *Science*, *† *Phys*
Chem, Hilliard, E, M A., B C L, Senior Bursar, *Law* *, Macdonell, A A,
M A, Prof of Sansk, Macgregor, D C, M A, *Classics* *, MacMurray, J.
M A, Jowett Lectr in *Philos Classics* *, Merton, T R, M A, D Sc, Prof
of Spectroscopy, Morris, C R, B A, *Classics* *, Nicholson, J W, M A,
F R S, *Maths and Physics* *, Orwin, C S, M A, Pickard-Cambridge, A W,
M A, Jowett Fellow, *Classics*, *† *Greek*, Librarian, Rudley, M R, M A,
Chaplain, *Engl Lit* *, Stone, C G, M A, *Hist.* *, Urquhart, F F, M A,
Senr Dean, *Mod Hist.* *

Other Lectrs, etc. Rodger, A B, B A, † *Econ.*, Walker, E, D Mus,
M A, Dir. of Music, Priestley, J G, D M Ch Ch, † *Physiol*, Duke, A C H
C M G, Dom Bursar, Sumner, B H, M A, *Mod Hist* *, Smith, H G,
B A, † *Chem*

BRASENOSE COLLEGE Founded 1509 Principal—C H. Sampson, M A.
Fellows Barker, T V, M A., B.Sc; Butler, A. J, M A, D.Litt.; Evans,
Sir A. J., D Litt, F R.S., Prof. of Archæol; * Griffith, I. O, M.A.; * Holroyd,

* Tutor

† Lecturer

M., M.A., Jeffery, R. W., M.A. †; Jenkin, C. F., C.B.E., M.A., Prof of Engin;
Jenkinson, A. J., O.B.E., M.A., Tutor and Librarian *, Jones, H. S., M.A.,
D Litt, Prof of Anc Hist; Platnauer, M., M.A., B Litt †, Stallybrass,
W. T. S., O.B.E., M.A. * Vice-Principal, Stocker, W. N., M.A., Lecturer and
Home Bursar, Taylor, T. W. J., M.A., †, Wace, H. C., M.A., * Chaplain,
Bursar, Wakehng, G. H., O.B.E., M.A., Senr Tutor

Other Lectrs Brett-Smith, H. F. B., M.A., *Engl Lit.*

CHRIST CHURCH Founded 1546. Dean—Very Rev. H. J. White, D.D.
Canons Cooke, G. A., D.D., Reg Prof of Hebrew, Lock, W., D.D., Lady
Marg Prof of Div, Ottery, R. L., D.D., Reg Prof of Past Theol, Shaw,
Rt Rev and Ven E. D., D.D., Archdeacon of Oxford, Watson, E. W., D.D.,
Reg Prof of Eccles Hist., Goudge, H. L., D.D., Prof of Div

Students (equivalent to Fellows): Anderson, J. G. C., M.A., * *Classics*,
Barrington-Ward, J. G., M.A., * *Classics*, Beazley, J. D., M.A., * *Classics*;
Blunt, H. W., M.A., * *Classics*, Carter, A. T., C.B.E., D.C.L., K.C., * *Law*;
Chaundy, T. W., M.A., * *Maths*, Dundas, R. H., M.A., Censor, * *Classics*,
Felling, K. G., O.B.E., M.A., * *History*, Hassall, A. M.A., * *Hist*, Heaton,
T. B., O.B.E., D.M., * Lee's Reader in *Anat*, Garrod, Sir A. E., K.C.M.G.,
D.M., F.R.S., Reg Prof of *Med*, Hutchinson, G. T., M.A., Treasurer;
Lindemann, F. A., M.A., F.R.S., Lee's Prof of Exp Philos, Masterman,
J. C., M.A., Censor, * *Hist*; Murray, Gilbert, M.A., D Litt, Reg Prof of
Greek, Owen, S. G., M.A., * *Classics*, Payne-Smith, W. H., M.A., Rawlinson,
A. E. J., B.D., M.A., * *Theol*, Russell, A. S., M.A., * Lee's Reader in *Chem*,
Slessor, Major A. K., M.A., Steward, Soddy, F., M.A., F.R.S., Lee's Prof of
Chem, Taylor, F. A., M.A., * Thomson, A., M.A., Lee's Prof of *Anat*

Lectrs Bosanquet, C. H., M.A., Lee's Reader in *Physics*, Sutton,
C. W. H., B.A., *Philos.*, Harrod, H. R. F., B.A., *Mod. Hist*

CORPUS CHRISTI COLLEGE Founded 1516 President—T. Case, M.A.

Fellows Clark, A. C., M.A., Corpus Prof of *Latin*, Grundy, G. B., M.A.,
D Litt *, Livingstone, R. W., M.A., * Dean, Librarian, Mowat, R. B., M.A.,
Vice-Pres, Asst Tutor, Phelps, W., M.A., Asst Tutor, Pidduck, F. B., M.A.,
Asst Tutor, Plummer, C., M.A., Chaplain, Schiller, F. C. S., M.A., D.Sc. *,
Stewart, J. A., M.A., Prof of Moral Philos, Vinogradoff, Sir Paul, M.A.,
Hon D.C.L., Corpus Prof Jurispr.

Lectrs. not on the Foundation Miles, Sir J. C., M.A., B.C.L. Mert.,
Jurispr, Hammick, D. L., M.A. Or, *Nat Sci*, Lightfoot, R. H., M.A., *Theol*
Bursar Lightfoot, H. Le B., M.A.

EXETER COLLEGE Founded 1314 Rector—L. R. Farnell, D Litt

Fellows Atkinson, C. T., M.A., † *Modern Hist*, Barber, E. A., M.A.;
Sub-Rector, * † *Classics*, Cheshire, G. C., B.C.L., M.A., Bursar, † *Law*;
Clarke, S. S., B.A., Henderson, B. W., M.A., D Litt, Senior Tutor, Librarian,
Marett, R. R., M.A., D.Sc., * Reader in Soc Anthropol, Raikes, H. R., M.A.,
* Dean, *Nat Sci*, Williams, N. P., B.D., M.A., Chaplain Fellow, † *Theol*.
Non-stipendiary Balfour, H., M.A., Dawkins, R. MacG., M.A., Prof. of
Byzantine and Modern Greek

Other Lectrs Lattey, R. T., B.Sc., M.A. Trin, *Physics*; Loewe, H. M. J.,
M.A., *Hebrew*, Newbould, H. O., B.A., St. J., *Maths*, Stampa, L., M.A.,
Magd, *Modern Hist*, Waters, E. G. R., M.A. Keb, *French*, Wilson, F. P.,
B Litt, Linc, *Engl.*

HERTFORD COLLEGE. Founded 1874. Principal—W. R. Buchanan
Riddell, M.A.

* Tutor

† Lecturer.

Fellows : Atkinson, R. d'E, B.A (Research Fellow) ; Boase, T. S. R, B A, † *Mod. Hist* , Campbell, J E, M A, F R S, Tutor and Lectr in *Maths* , Campbell, J McL., M.A, Chaplain , Cecil, Rt. Hon. Lord Hugh, M A, M P ; Cruttwell, C. R. M. F, M A, Dean, * † *Mod. Hist* , Denniston, J. D, O B E, M.A, Librarian, * † *Classics* , Haselfoot, C. E, M.A, Bursar, * † *Nat Sc* , Jackson, C N, M A , Murphy, N R, M A, † *Philos* ; Hignett, C., M A, † *Anc Hist*

Other Lectrs Allen, C K, M A Univ, *Jurispr*

JESUS COLLEGE. Founded 1571 Principal—E. G. Hardy, M A, D Litt.

Fellows . Chapman, D L, M A, F R S, Tutor in *Nat Sc* and Junr Bursar, Davies, J. H, M A , de Winton, Ven F H., M A , Dodd, P. W, M A, Asst Tutor *Litt Hum* , Edwards, J. Goronwy, M A, Librarian, Asst Tutor, *Mod Hist* . Fraser, J, M A Aberd, Prof of Celtic, Genner, E. E, M.A, Senr Tutor, *Classics* , George, H J, M A, Asst Tutor, *Chem* , Hazel, A E W, C B E, M A, B C L, Vice-Principal, Senr Bursar, Dean, Asst Tutor, *Law* , Hodgkinson, J, M A, Asst Tutor, *Maths* , Poulton, E B, M A, F.R.S, Prof of Zool , Seymour, P A, M A, Asst Tutor, *Classics*

Other Lectrs, etc Cross, L B, B A, Chaplain, † *Theol* , Stenning, J F, C B, C B E, M A Wad, † *Orient Langs* , Waters, E G R, M A Keb, † *French*

LINCOLN COLLEGE Founded 1427 Rector—J A R Munro, M A

Fellows Brook, V J K., M A, Dean, † *Theol.* ; Carlyle, E. I, M A, Bursar, Librarian, † *Modern Hist* , Dreyer, G, C B E, M A, F R S, Prof of *Path* , Gardner, P, M A, D Litt, Prof of Class Archæol and Art , Hanbury, H. G, B C L, Jr Tutor, † *Jurispr* , Marchant, E C, M A, * Sub-Rector, Sr Tutor, Sidgwick, N V, M A, F R S, † *Nat Sc*

Other Lectrs Carlyle, A. J, M A, D.Litt Univ., *Engl Lit* ; Jeffery, R. W., M.A. B N C, *Mod Hist* , Morison, C G T, M A Ball, *Agr Chem*

MAGDALEN COLLEGE Founded 1458 President — Sir H Warren, K C V O, M A, Hon D C L

Fellows Baker, G E, M A , Bell, C F, M A , Benecke, P V M, M A, * *Classics* ; Brightman, F E, M.A ; Bowman, H L, D Sc, Prof of Mineralogy, Carter, C R, M A, Estates Bursar, Curator of the Botanic Garden, Coolidge, W. A B, M A, Cowley, A E, M A, D Litt , Craig, E. S, M A ; Dixon, A. L, M A, F R S, Prof of Maths ; Driver, G R, M A, * *Classics*, Jr Dean of Arts, Librarian, Gunther, R W T, M A , Hodgson, L, M A, † *Theol* , Dean of *Div*, Sec. to Tut Board, Hogarth, D G, C M G, M A, D.Litt , Hope, E., M A, * *Chem* ; Keeble, Sir F. W, C B E, M A, Sc.D, F R.S, Prof of Botany, Lee, S G, M A, * *Hist*, Sr Dean of Arts, MacKeith, M H, B M, M A , Manley, J J, M A , Miers, Sir H A, M A, D Sc, F R S , Onions, C T, M A, † Engin., Pedder, A L, M A, * *Maths* and *Physics* , Perkin, W. H, M A, Ph D, F R S, Prof of Chem , Poole, R L, M A, Price, H H., B.A , Salter, H. E, M A , Segar, R, M A, * *Law* , Sherrington, Sir C S, G B E, M A, M D, Hon D Sc, F R S, Prof of Physiol , Smith,* J A, M A, Prof of Philos , Snow, G R S, B A , Thompson, J M, M A., Home Bursar, Turner, C. H, M A., Prof of Exegesis , Wilson, H A, M A, Wrong, E M, M A, * † *Hist* , Weldon, T. D, B A, * *Litt Hum* , Titchmarsh, E. C, B A

Other Lectrs Waters, E. G R., M A

MERTON COLLEGE Founded 1264 Warden—T Bowman, M A

Fellows Allen, P. S, M.A, Librarian , Bradley, F. H., M.A. ; de Beer,

* Tutor.

† Lecturer.

G R, B A., B Sc., Deane-Jones, I, B A, * *Modern History*, Fyfe, W. H., M A, Garrod, H. W., M A., *Class*, *, Gill, E. W. B., O B E., M A, B Sc, Dom. Bursar, Goodrich, E S, M A, F R.S., Prof. of Zool, etc., Gordon, G. S, M A, Prof. of Engl. Lit., Green, F W., M A, * *Theol*, † *Div*, How, W W, M A, Sen Tutor, *Class* and *Anc. Hist*, *, Lambert, B, O B E, M A., * *Nat Sc*; Marsh, J E, M A, F R S, Miles, Sir J C, M A, B.C.L., *Law*, *, Mure, G R G, M A, * Sub-Warden and Dean; Smith, D. Nichol, M A., Reader in English, Thompson, R C., M A, Wyld, H C K, B Litt, M A., Prof of Engl Lit.

Other Lectrs. . Campbell, J E, M A Hert, *Maths*, Mowat, R B, M A. Corp., *Hist*.

NEW COLLEGE Founded 1379 Warden—W A Spooner, D D

Fellows Allen, Sir H. P, M A., D Mus., Prof of Music, Casson, S, M A; Courtney, W L, M A, Fisher, Rt Hon H A L, M A, M P, Haldane, John Scott, M A, F R S, Hardy, G H, M A, F R S, Prof. of Geom, Hayes, E H, M A; Henderson, H L, O B E, M A, Dean, Dean of Arts, *, Huxley, J S, M A, Sub-Warden, † *Zool*, Joachim, H H, M A, Prof. of Logic, Joseph, H W B, M A, * *Philos* and *Classics*, Legg, L G W, M A., * *Modern Hist*, Lightfoot, R H, M A, Junr Bursar, * Dean of Div.; Manning, C. A W, B A, † *Law*, Margolouth, D S, M A, D Litt, Prof. of Arabic, Matheson, P E, M.B.E, M A, * *Anc Hist* and *Classics*; Moyle, J B, D C L, Myres, J. L, O B E, M A, Libn, Prof of Anc Hist, Ogg, D, M A, * *Modern Hist*, Poole, E G C, M A, D Phil, * *Maths*, Prickard, A O, M A, Radcliffe, G R. Y, M A, Senr Bursar, *, Salvesen, H K, M A, † *Econ*, Schuster, E. H J., M A., D Sc., Smith, A. H, C B E, M A, * *Philos.* and *Classics*, Sub-Warden, Townsend, J S E, M A, F R S, Prof. of Physics, Turner, H H, M A, D.Sc, F.R.S, Prof of Astron; Walden, A. F, M A, * *Chem*.

Other Lectrs House, H W, B A, D S O, Priestley, J. G, D M, * *Physiol*, Woodward, E L, M A, *Mod Hist*

ORIEL COLLEGE Founded 1326 Provost—L R Phelps, M A

Fellows Burney, C F, M A, D Litt, Prof of Interpret of Holy Script, Clark, G N, M A, * *Modern Hist*, Cohn, E. S, B A, †, Craigie, W A, M A, Prof. of Anglo-Saxon, Firth, Sir C H, M A., Prof of Mod. Hist.; Graham, E, M A, Dean, †, Hammick, D Ll, M A, * *Nat Sc*, Lewis, W J. M A, F R S, Lyon, P C, M A, C S I, Treasurer, Richards, G C, B D., M A, *, Ross, W D, O B E, M A, *, Simpson, P, M A, † *Engl Lit*, Tod, M N, O B E, M A, * Librarian, Webb, C. C. J, M A, Prof. of the Philos of the Christian Religion

Other Lectrs Berthon, H E, M A., *French*, Franklin, K. J, B A, *Nat Sc*., Rogers, L. J, B Mus, M.A., *Maths*, Stallybrass, W. T. S, O B.E., M A, *Law*.

PEMBROKE COLLEGE Founded 1624 Master—F. H Dudden, D D

Fellows Burrowes, A B., M A, Dean, † *Div* and *Classics*; Collingwood, R. G, M A, Librarian, *, Drake, H L, M A, * *Classics*, Leudesdorf, C, M A, Vice-regent, Ramsden, W, D M, Salt, L E., M A, Bursar; Wood, G., M A

Other Lectrs Berthon, H. E, M A Wad, *French*; Brett-Smith, H. F. B, M A, *Engl*; Chaundy, T. W, M A. Ch. Ch, *Maths*; George, H. J., M A. Jes, *Nat Sc*, Williams, N. P, B.D, M.A Exe, *Theol*, Rodger, A B, B A, *Mod. Hist*.

* Tutor.

† Lecturer.

THE QUEEN'S COLLEGE. Founded 1340 Provost—J R Magrath, D D
 Fellows Allen, T W, M A, Sr Tutor, Librarian, Armstrong, E, M A ;
 Bell, J, M A., * † *Classics*, Berrisford, E A, M A., Chaplain, † *Divinity*,
 Chattaway, F D, M A., Ph D, F R S, * † *Chem*; Cronshaw, G B, M A,
 Bursar, Elton, G, M A., † *Modern Hist*, Hodgkin, R. H, M A, * † *Mod.*
Hist, House, H. W, D S O, B A, † *Mod Langs*, Hunt, A S, M A, D Litt,
 Prof of *Papyrol*, Morice, F. D, M. A., Paton, H J, M A, * † *Philos*, Sayce
 A H., M A, Hon D Litt., Streeter, B H, M A, † *Theol*; Thompson, C. H.,
 M. A, * † *Maths*, Walker, E M, M A, Pro-Provost, † *Ancient Hist*
 Other Lectrs Brett-Smith, H F B, M A, *English*, Douglas, C G,
 C M G, B Sc, D M, *Physiol*, Forbes, N, M A, *Russian*, Hazel, A E W,
 C. B E., B C L, M A, *Law*, Salvcsen, H K, B A, *Econ*

St JOHN'S COLLEGE Founded 1555 President—H A James, D D
 Fellows Applebey, M P, M B E, M A, B Sc, Asst Tutor, † *Chem*,
 Burney, C. F, D Litt, Prof of Interp of Holy Scrip, Costin, W C, M A,
 † *Mod Hist*, Jr Dean of Arts, Dermer, E C, M A, B D, Douglas, C G,
 C. M G, B Sc, D M, F R S, † *Nat Science*, Asst Tutor, Hall, F W, M A,
 * † *Classics*, Hart-Synnot, R V O, D S O, O B E, M A, Bursar, Last,
 H M, M A, † *Anc. Hist*, Poole, A L, M A, † *Modern Hist*, Asst Tutor,
 Powell, J U, M A, Senr Tutor, † *Classics*, Pullan, L, D D, Vice-Pres, Sr
 Dean of Arts, * † *Theol*, Somerville, W, D Sc, M A, Prof of Rural Econ,
 Stevenson, W H, M A, Libn, Stocks, J L, M A, * † *Philos*, Troup, R S,
 C. I E, M A, D Sc, Prof of Forestry
 Other Lectrs Berthon, H E, M V O, M A Wad, *French*, Hughes,
 A M D'Urban, M A, *English*, Newboul, H O, B A, *Maths*

TRINITY COLLEGE Founded 1554-1555 President—H E D Blakiston,
 D D (acting Estates Bursar).

Fellows Green, M H, M A, Higham, T F, M A, Dean, † *Classics*,
 Hinshelwood, C N, B A, † *Chem*, Kirk, K Escott, B D, M A, Chaplain and
 Lectr in *Theology*, Landon, P A, M A, † *Law*, Jr Bursar, Liddell, E G T,
 B M, M A, Vice-Pres, Ogilvie, F W, M A, † *Econ*, Patterson, M W,
 M A, * † *Modern Hist*, Prichard, H A, M A, * † *Philos*, Weaver, J R H,
 M A, * † *Modern Hist*, Librarian

UNIVERSITY COLLEGE Founded 1249 Master—Sir Michael E Sadler,
 K C S I., M A

Fellows Allen, C K, M A., Prælector in *Jurispr*, Dean, Bowen, E J,
 M. A, Prælector in *Chem*; Carritt, E F, M A, Prælector in *Philos*, Librarian,
 Farquharson, A S L, C B E, M A, Prælector, Sr Tutor, Dean of Degrees,
 * *Litt Hum*, Keir, D L, B A, Prælector in *Mod Hist*, Leys, K K M, M A,
Modern Hist, *, Poynton, A B, M A, Prælector in *Greek*, Bursar, Sollas,
 W J, M A, F R S., Prof of Geology, Stevenson, G H, M A, Prælector in
Anc Hist, Walker, E. W A, D M, D Sc, * Prælector in *Nat Philos*

Other Lectrs and Asst Lectrs. Bosanquet, C H, M A, *Physics*, Carlyle,
 A. J, M A, D. Litt, *Pol Philos* and *Econ*, Douglas, J A., D Sc., M. A. Keb,
Geol., Ewert, A, M A., *French*, Johnson, A. H., M A., *Modern Hist.*, Mori-
 son, C G. T, M A, *Agric.*, etc, Thomson, C H, M. A. Qu, *Maths.*; Wilson,
 F P., B Litt., M A, *Engl Lit.*

WADHAM COLLEGE Founded 1610 Warden—J. Wells, M A.

Fellows: Bowra, C. M, M A, † *Classics*, Dean, Brabant, F. H, M A,
 † *Philos*, Dixey, F A, D M, F R S, Wills Medical Fellow, † *Physiol*, etc.,

* Tutor.

† Lecturer.

Sub-Warden and Bursar; Lennard, R. V, M A, Librarian, * *Hist.*; Lindemann, F A, M.A, F.R.S., Prof of Expl Philos.; Stenning, J. F, C B., C B E, M.A, Senr. Tutor, ‡ *Div*, *Hebrew*, Wade-Gery, H T., M A, * *Classics*, *Anc Hist*

Other Lectrs Berthon, H E, M A, M V O, *French*, Graham-Brown, G F, M A, Segar, R, M A, *Law*, Simpson, P, M A, *English*

WORCESTER COLLEGE. Founded 1714 Provost and Senr Bursar—F J Lys, M A

Fellows Bryan-Brown, A N, B A, ‡ *Classics*, Narborough, F D V, M A, ‡ *Theol*, Pickard-Cambridge, W A, M A, * ‡ *Classics*, Roberts, P E, M A, Vice-Provost, * ‡ *Mod. Hist*. Somerset, H V F., B A, ‡ *Mod. Hist*, Wilkinson, C H, M A, ‡ *Engl Lit*, Dean, Librarian

Other Lectrs Marriott, J A R, M A, *Mod Hist*, Rogers, L J, B Mus, M A, *Maths*

ST EDMUND HALL Founded 1269. Principal—G B Allen, M A, D D.

Staff Bell, J, M.A Qu, ‡ *Classics*; Brewis, G. R, M A., Senr Tutor; Chattaway, F D, M.A, F.R.S., ‡ *Chem*; Emden, A. B, M A., Vice-Principal, Bursar, * *Modern Hist*, Simpson, D C, M A, B D, ‡ *Hebrew*, Thompson, C H, M A, ‡ *Maths*, Waters, E G R, M A, ‡ *French*, * Fletcher, R F W, M A, Chaplain, *English*.

KEBLE COLLEGE Founded 1870 Warden—B J Kidd, D D

Tutors Jackson, W Hatchett, M A, D Sc, *Nat Science*, Joliffe, J E A, M A, *Hist*, Owen, A S, M A, *Classics*, Parker, H M D, M.A, *Litt. Hum*, Reade, W H V, M A., Librarian, *Litt. Hum*, Rice-Oxley, L, M.A, *Hist*, Simpson, D C, B D, *Theol*, Gretton, R H., M A Magd, *Hist*

NON-COLLEGIATE STUDENTS Censor—J B Baker, M A, Non-Coll

Tutors and Lecturers The Censor, *Modern Hist*, Carlyle, A J, D Litt Univ, *Engl*, Chattaway, F D, M A Qu, *Chem*, Dixey, F A, D M Wad, *Physiol*, Garabedian, D, M A, *French*, George, H J, M A Jes, *Chem.*, Graham, E, M A Oriel, *Theol*, Jeffery, R W, M A B N C, *Modern Hist*; Kendrew, W G, M A, Non-Coll, Knapp, C, D D, *Theol.*, Lawson, F. H, M A. Qu, *Jurispr*; Nicholls, A W, M A, B Litt, *Mod Hist*, Richards, G C, B D., M A Oriel, *Classics*, Thompson, C H, M A Qu, *Maths*, Underhill, G E, M A Magd, *Litt Hum*

CAMPION HALL. Master—J H. Keane, M A

ST BENET'S HALL Master—P J McCann, M A

Recognized Societies

LADY MARGARET HALL, founded in 1878 and opened in 1879, constituted under a Deed of Trust in 1893, incorporated 1913 Principal—Lynda Grier, M A Tutors Evelyn M Jamison, M A, Vice-Principal, Janet Spens, M A, D Litt, Helena C Deneke, M A, Margaret G Skipworth, M A, Librarian, Mary Coate, M A, Agnes M Ramsay, M A; Catherine M Chilcott, M A Lond Bursar and House Treasurer—Ethel A Musson Hall Secretary—Christine Anson, B A Susette Taylor Research Fellow—H. Waddell, M A Belf

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879 In 1881 it was incorporated under the Companies Acts (1862–80) Principal—Miss E. Penrose, M.A Vice-Principal—Hon Alice Bruce, M A. Tutors—Mildred Pope, M.A; Hilda Lorimer, M.A.; Helen Darbishire, M A; Doris Rhodes;

* Tutor

‡ Lecturer

Jane Kirkaldy, M.A. ; Maude Clarke, M.A. ; Charlotte Young, B.A. *Lady Carlisle Research Fellow*—Mary Porter, B.Sc. ; *Mary Somerville Research Fellow*—Evelyn E S Procter, M.A. *Librarian*—Vera Farnell, M.A. *Secretary and Treasurer*—Helene Reynard. *Bursar*—Beatrice Stonedale.

ST HUGH'S COLLEGE, founded as St Hugh's Hall, in 1886, was incorporated as St Hugh's Coll in 1911 *Principal*—Miss E F Jourdain, M.A. *Vice-Principal and Dean*—Catherine B Firth, M.A. , D Lit *Tutors*—Cecilia M Ady, M.A. , Margaret R B Shaw, M.A. , Edith E. Wardale, M.A. , Jane W. Kirkaldy, M.A. ; Jocelyn Toynbee, Gladys Scott-Thompson, Dorothy Everett. *House Bursar*—Ruth Metherell *Asst Bursar*—Sophia F Salt. *Librarian*—Winifred M Mammatt, M.A. *Secretary*—A M Phyllis Mills, B.A.

The College is conducted according to the principles of the Church of England.

ST HILDA'S HALL, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll Admission (minimum age, 18) ordinarily by examn. Students are expected to read for an Honour Degree, B Litt, B Sc, or Univ Dipl *Principal*—Winifred H Moberly, M.A. *Tutors* Julia de L. Mann, M.A. , Vice-Principal, Econ, Eleanor W Rooke, M.A. , English, Christina Keith, M.A. , Classics, Agnes M Sandys, M.A. , Mod Hist, Kathleen Chesney, B.A. , Librarian, French, Jane W Kirkaldy, M.A. , Lectr, Nat Sc, Eliz M O Farrow, B.A., Lectr, Chem, Violet L Winslow, House Bursar, Joyce C Thornton, M.A. , Principal's Secretary

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879 The Governing Body is the Univ. Delegacy of Home-Students *Principal*—Miss Burrows, M.A. , 1 Jowett Walk, Oxford There is a staff of 12 Tutors

The students reside in their own homes or with relatives or in private families in Oxford or, occasionally, in lodgings Twelve reside in the Anglican convent of S Thomas.

St. Frideswide's, Cherwell Edge, is a hostel maintained by the Roman Catholic Community of the Holy Child Jesus, and licensed by the Univ. for the reception of Home-Students, religious and secular.

GENERAL INFORMATION

CONSTITUTION. *Convocation*, consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine who have their names on the Univ books, has the power of confirming or rejecting (but not of amending) Statutes which have passed Congregation It also transacts much of the ordinary business of the Univ by means of "Decrees" It confers honorary degrees and also degrees granted by Decree or Diploma It sanctions petitions to Parliament, authorizes the affixing of the Univ seal when necessary, and its members elect the Univ. representatives in Parliament But no proposals can be made to it which have not been sanctioned by the *Hebdomadal Council*, which consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiration of his term of office), and Proctors and 18 other members (Heads of Houses, Professors, etc.) elected by Congregation This Council takes the initiative in all the legislation of the Univ, except what is proposed by the General Board of the Faculties. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ and Colleges. It has the power of adopting, rejecting, or amending legislation submitted by the Hebdomadal Council previously to its submission to Convocation The *General Board of the Faculties* has power, after consultation with the Board of the Faculty

concerned, to draft and send to Congregation through the Hebdomadal Council any proposals on matters connected with studies and exams. which require to be dealt with by Statute.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation

The Colleges are corporate bodies distinct from the Univ. They are not even, at all events directly, subject to regulations made by the Univ.; they manage their own property and elect their own Officers, and the Proctors have no power within their walls. In many matters, however, they and the Univ. recognize each other's regulations, and an intimate relation exists between them; the great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, and Lectrs., partly by the more numerous body of College Tutors and Lectrs. Altogether the teaching staff numbers approximately 300

FACULTIES Theology, Law, Medicine, Literæ humaniores, Modern History, Mediæval and Modern Languages, Oriental Languages, Natural Science. For Music, for Agriculture and Forestry, and for Philosophy, Politics, and Economics, there are Boards of Studies.

ADMISSION to the Univ. ("Matriculation") is without respect of sex, birth, age, nationality, or creed, and follows upon admission to a College or Hall or to the Society of Non-Coll. Students, or Society of Home-Students. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer * of the Society to which admission is desired, it should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College walls are desired.

Although the Univ. itself holds no Entrance examn., the Colls. and Halls and the Society of Non-Coll. Students require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is ordinarily included.

Students from abroad (v. also Appendix XXIII.) The Secretary (H. S. Williamson, M.A., Indian Institute) of the *Delegacy for Oriental Students* is prepared to advise Indian and other oriental students, who should apply for admission through him.

To deal with enquiries from other students who wish to become members of the Univ. and whose home residence is outside Great Britain an *Adviser to Colonial and Foreign Students* (R. Truslove, M.A., 40 Broad St.) is attached to the Univ. Registry. Applications for admission to Colleges may also be made through him.

INCORPORATION Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., i.e. admitted to the same status and degree which they hold in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a College or the Censor of Non-Coll. Students. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D.,

* Balliol—The Tutor for Admissions, Qu—The Pro-Provost, Non-Coll.—The Censor, Non-Collegiate Buildings; in other cases—The head of the Society (v. *supra*).

B.D., D.D., and D.Sc. of those Univs. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

ADMISSION TO ADVANCED STANDING OF STUDENTS FROM OTHER INSTITUTIONS: "JUNIOR" AND "SENIOR" STUDENTS. I. *Universities other than Indian*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any exams proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (b) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ. or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 either Latin or Greek or French or German must be one. (b) Any student who shall have pursued at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. *A Junior Student*. (a) may reckon his 1st term as his 4th, (b) is not required to pass Responsions, (c) is entitled to supplicate for Degree of B.A. after having resided 6 terms and passed the 1st Public Examn. and either (1) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "ægrotat", or (2) satisfied the Examiner in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I, or in the Final School of Agric. or of Forestry, or (3) obtained Honours in the 1st Public Examn., and subsequently passed the 2nd Public Examn., or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List.

A Senior Student. (a) may reckon his 1st term as his 4th, (b) is not required to pass Responsions or any part of the 1st Public Examn. or any Preliminary or Previous Examn. of the 2nd Public Examn.; (c) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having either (1)—as above—(c) (1), or (11)—as above—(c) (4).

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Members of the following **AFFILIATED COLLEGES** may claim the status of Affiliated Junior Student if they have pursued a 2 yrs' course of study at their Coll. and taken Honours in an examn. thereon. St. David's Coll., Lampeter (3 yrs' course with Honours may give admission to status of Senior student); Univ. Colls., Nottingham, Reading, Southampton, Exeter, Exeter Diocesan Training Coll. The privileges of an Affiliated Junior Student are similar to but not identically the same as those of a "Junior Student."

TERMS The Academical year, which begins in Oct and ends in June, consists of 3 terms, each of some 8 weeks. Residence within the walls of a College or Hall, or in licensed lodgings,* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree except in Music. Full terms begin April 27 and Oct. 12, 1924, and Jan. 18, 1925.

DEGREES. B A, M A, B Litt, D Litt, B Sc, D Sc, D Phil, B D, D D, B C L, D C L, B M, B Ch., D M, M Ch; B Mus, D Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn at Oxford are those of B Litt, B Sc, D Phil, B C.L, and B D.

ARTS Examns in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns, in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ to either Pass or Honour examns, it is simply for the attainment of the degree of B A that residence is obligatory. Every Coll and Hall, however, as well as the Delegacy of Non-Coll. Students, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B A must (1) reside at the Univ as a matriculated member during 9 terms, unless he is privileged as a member of another Univ or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(a) *Responsions.* The examn may be passed before matricn, and most Colls require it or an equivalent examn to be passed before residence is begun. Names of candidates who have not been matriculated must be entered through an officer of the Society to which they intend to belong. The examn includes 3 groups I (a) Latin, (b) Greek, II (a) English, (b) French, (c) German, (d) Italian, (e) Spanish, III (a) Maths, (b) Nat Sc. In order to be deemed to have passed Responsions it is necessary to have passed either in both subjects of Group I and in the 2 subjects in Group III, or else in one subject at least in each group, and in 4 subjects in all, including two languages other than English.

(b) *The 1st Public Examn.* This consists of (1) Examn in Holy Scripture, (2) Honour Classical Moderations, (3) Hon Math Modns, (4) Pass Modns, (5) Prelim Jurisprudence, (6) Prelim Mod Hist, (7) Prelim. N Sc, (8) Prelim. Agr, and (9) Prelim Forestry. In order to pass the Examn a candidate must pass in (1) and in one of the other subjects.

(c) *The 2nd Public Examn.* This consists of (a) an examn. for Candidates who do not seek Honours, or Pass School, including Schools of Agriculture and Forestry, (b) a Final Examn in 10 Honour Schools, namely. Literæ Humaniores (Philos and Ancient Hist), Maths, Nat Science (Phys., Chem, Physiol, Zool, Bot, Geol, Astron, or Engin), Jurispr, Mod Hist.; Theol, Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl Lang and Lit, Mod Langs (French, Ger, Ital, Span, Russ, or Mediæval and Mod Greek); Philos, Politics, and Economics.

Under certain conditions members of other Univs and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs may be admitted to the

* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn, as well as a remission of 3 terms of the necessary residence (v. *supra*, p. 189). Analogous concessions are made in favour of Probationers for the Indian Forest Service who have obtained an approved degree at an approved Univ and been admitted to the status of "Indian Forest Service Student." Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions and the 1st Public examn.

The DEGREES B LITT. AND B Sc, instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person over the age of 21 years who produces sufficient evidence of his ability and (1) is a member of the Univ who has passed the examns for the degree of B A, or (2) is a graduate in Arts, Letters, or Science of a Univ within the U K, or (3) can satisfy the Education Committee that he has received a good general education. Applications must in all cases be made to the Asst Registrar through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ for 6 terms is a necessary condition for either degree.

Of the same nature but of a higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v p 14).

To a student who, having kept residence for a period of not less than 3 terms, has completed a course of study or research for the B Litt or B Sc and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D LITT AND D Sc, instituted in 1900, are awarded for published work of sufficient merit.

THEOLOGY The B D degree is open to candidates of over 26 yrs of age who have passed a Qualifying examn in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject.

The degree of D D is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

LAW The examn. for the B C L degree is open either (1) to B A's of the Univ or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos, Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl, Roman-Dutch, and Internat Law.

MEDICINE The B M degree is open only to B A's of the Univ who have passed certain examns in Med and Nat Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 years, of which between 2 and 3 are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M examn. The M Ch. degree is open to candidates who have passed all the examns for the B M and B Ch, and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M must be a B M, and have entered

on the 30th term from matricn. and had his name on the books of some Coll or Hall or on the Register of Non-Coll Students for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent Univ examns.

MUSIC The degree of B Mus. is open to candidates who *either* (a) have been admitted to the degree of B A or (b) have (1) passed Responsions or an equivalent or a special Prelim examn. for students of music, (2) satisfied the examiners in English or 1 of 3 language subjects in the Final Pass School, and (3) pursued either at the Univ. or at some approved institin a course of musical study, approved by the Board of Studies for Music, extending over at least 2 yearly courses. All candidates must also pass 3 examns in Music (the subject of one of which is the composition of a Musical Exercise) under conditions laid down by Statute. There is no residential qualification for the degree of B Mus, but the conditions of admission to the various examns. make it necessary that the candidate's name should be on the books of his Coll. or Hall or of the Society of Non-Coll Students for at least 9 terms. A B Mus may qualify for the degree of D Mus by submitting a musical composition for approval and passing a further examn in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

DIPLOMAS Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained

Geography, 1 yr, Reader in Geog, School of Geog, Mansfield Rd.

Education, 1 yr. (or Vacation course, v p. 192) Director of Training, 15 Norham Gardens

Economics and Polit Sc, Dr A. J. Carlyle, 29 Holywell St.

Anthropology, 1 yr, Reader in Social A, Acland House, Broad St

Forestry, 1 year, Secy, School of F. Open to graduates of Oxford or other Univs

Rural Economy, 2 yrs, Secy., School of R E.

Classical Archæology, 1 yr, Secy to Committee on C A, Ashmolean Museum

Theology, 1 yr, Asst Registrar

Open to Registered Medical Practitioners. Public Health and (also open to Registered Practitioners and to approved Bachelors and Doctors of Med of Univs outside the U K) Ophthalmology, Asst Registrar.

Certificates Surveying or General and Regional Geog, 2 terms, Reader in Geog., Physical or Cultural Anthropology, 2 terms, Reader in Social A, Acland House, French or German, Advanced Study or Research (v p 190).

The following has been approved as a Society for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ. *Ruskin College*.

COMMISSIONS IN H M FORCES, v Appendix I. Candidates must have resided for 3 yrs at the Univ and been efficient members of the Univ. O T.C. Office of the Secy to the Delegacy for Military Instruction—20 St. Michael's St

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the **TRAINING OF TEACHERS** (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. Staff Director, F. J. R. Hendy, M A, the Univ. Reader in Educn., Tutor to Women Students and Principal of the Women's Hostel, and an Asst

Lectr. and Tutor For the Univ. Dipl. in Educn there is a 1 yr post-grad. course, theoretical and practical Undergraduates are admissible on certain conditions Students are also accepted for a 4 yrs ' course (v. Appendix XIX)

A *vacation course* of 4 weeks (fee £7 10s.) is held annually in August, open without restriction to men and women Students of this course who are graduates and who are teachers with 7 yrs.' experience may obtain the Univ. Diploma without further residence.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matriculation a woman must have been admitted as a member of one of the 5 Societies of Women Students A woman may be admitted to *Responsions* before matriculation provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Society to which she *bona fide* desires admission Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, exams, course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund The Delegacy for Women Students has been abolished

SCHOLARSHIPS College Entrance scholarships are very numerous and valuable The Univ. scholarships are usually open only to members of specified standing Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos., 2 (£80) for Maths., 8 (£1340) for Med. and Nat. Science, 4 (£440) for Law, 3 (£300) for Theol., 13 (£760) for Oriental Studies There are several College Research Fellowships tenable by persons distinguished in Science or Lit. (who may be elected without examn.) on condition of prosecuting some definite work.

The General Board of Faculties has power to provide studentships for advanced study and research, and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made

The Rhodes Scholarships were founded in 1902 under the will of the late Cecil John Rhodes. The value of each Scholarship is £300 a year, with an additional bonus for the present of £50 a year, and they are tenable at Oxford for 3 years, subject to approval from year to year by his College of the Scholar's progress and conduct The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments, (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like, (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness, and fellowship; and (4) his exhibition during schooldays of moral force of character, and of instincts to lead and to take an interest in his schoolmates"

The Dominions and Colonies. An annual Scholarship is assigned to each Province of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand; and in South Africa to the Province

of Natal, the Transvaal, the Orange Free State, the Cape Province, the S A College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St Andrew's College School at Grahamstown, in alternate years to the towns of Kimberley and Port Elizabeth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921.

In founding these Scholarships, Mr Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

United States of America. Two Scholarships are assigned to each State. Since the Scholarship is tenable for 3 years, there will be 1 year out of every 3 in which there will be no election. In each of the other 2 years 1 scholarship will be filled up if a suitable candidate offers. The reason given by Mr Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U S . . . an attachment to the country from which they have sprung but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn of American Rhodes Scholars, is published quarterly by W W Thayer, Concord, N H, \$2 a year, 10s in England.

*Number actually in residence, 1922-23 (whole or part), 273—*Studying I aw, 87, Nat Sc and Med, 57, History, 34, Econ (Diploma and B Litt. or D Phil), 10, Litt Hum, 7, Engl, 24, Theol, 15, Maths, 6, School of Phil, Polit and Econ, 15, other subjects, 18.

Professions followed by Rhodes Scholars since leaving Oxford Education, 264, Law, 209, Business and Industry, 85, Administration and Government Service, 59, Medicine, 54, Ministry, 32, Farming, 21, Social and Phil-anthropic Work, 12, Journalism and Publishing, 16, Forestry, 9, Scientific (Research), 9, Army, 8, Engineering, 9, Mining, 3, Unsettled or unknown, 26, Miscellaneous, 14.

General Provision is now made under the Trust for the continuous residence at Oxford of 190 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile, and must have 2 years' standing at a regular degree-granting College or Univ, except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S W 1.

Among books dealing with the subject are *The Rhodes Scholarships*, by Sir G Parkin, Houghton, Mifflin & Co, Boston, and Constable, London, 1913, and *Oxford of To-day*, a manual for prospective Rhodes Scholars, Oxford Univ Press, 1922.

Secretary to the Rhodes Trustees—Sir Edward Grigg, K.C.V.O., Seymour House, Waterloo Place, London, S W 1. Local Secretaries: Oxford—F. J. Wyhe, Esq., 9 South Parks Road, Oxford, U S A—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa., Canada—J M Macdonnell, Esq., 153 St James St, Montreal, Australia—J C V. Behan, Esq., Warden's Lodge, Trinity College, Melbourne, S Africa—P. T. Lewis, Esq., S African Chambers, St George's St, Cape Town.

The **APPOINTMENTS COMMITTEE**, together with its Consultative Committee, contains representatives of every College. It receives notice of (1) scholastic appointments; (2) Government appointments, (3) openings in Banking, Industrial and Commercial firms, (4) miscellaneous posts. The Secy. is R Truslove, M A, Acland House, 40 Broad St. Telegraphic address—Appointments, Oxford, Telephone, 225 Oxford. Brief information about posts in the *Public Services* suitable for men who have taken their degree at the Univ is given in Ch XV of the Ox Univ *Handbook* (v "Publications")

LIBRARIES AND MUSEUMS. The *Bodleian Library*, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ, contains over 1,000,000 vols (representing more than 2,000,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ, are admitted on presenting a recommendation from some one in a responsible position. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are Macray, W D, *Annals* (Clar Press, 1890, 25s), Clark, A, *Guide for Visitors* (Clar Press, 1906, 1s 6d); Gibson, S, *Some Oxford Libraries* (Clar Press, 1914, 2s 6d), Madan, F, *The Bodleian Library*, London, 1921, 2s 6d, *The Bodleian Quarterly Record* (1s quarterly, obtainable from the Libn.)

The Tylor Library of *Modern Languages and Literature*, 50,000 vols, comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance. The Radcliffe (Univ Museum) consists very largely of books on Mathematics, Natural Science, and Medicine, and the Tylor *Anthropological* collection.

The Codrington Library (All Souls College) is especially rich in works bearing upon *Modern History and Law*. The Brand Library, also at All Souls, is a collection of books on *Political Economy and Science*. The Maitland Library, at the Examination Schools, is intended to assist advanced work and research in *Social and Legal History*. There are also the following: the Beit Library (*Colonial History*) and the Library of the *English School* at the Examination Schools, a *Geographical Library* (5000 vols) and *Maps* (13,000 sheets) in Mansfield Rd., and a Library of *Economics and Politics* at Barnett House.

The *Indian Institute* has 23,000 vols representing ancient, mediæval, and modern India and including also Arabic, Armenian, Georgian, Turkish, Egyptian, Burmese, and Chinese works, Sanskrit and Prakrit MSS (printed catalogue), all the leading Oriental journals in English, French, and German, and a Museum giving an historical synopsis of Indian life and customs.

The *College Libraries* include many important collections such as the *Russian and other Slavonic* books, 5000 vols, of Queen's, *History and Literature* MSS of 17th Century, of Worcester, *Music and Early Scandinavian* collections of Christ Church. The MSS in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press.

Art and Archaeology. The Ashmolean, the earliest English Museum, formed 1600–1650, contains, in addition to a Library of *Art and Archaeology*, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Pitt-Rivers Museum has an *Anthropological* collection illustrating evolutionary history of material arts.

Zoology, Geology, Mineralogy (17,000 spec), *Entomology* (Lepidoptera Collection illustrating mimicry, etc), are all represented in the Univ. Museum.

LABORATORIES : Electrical, Clarendon (chiefly for study and research in Heat, Optics, and Acoustics), Chemistry, Organic and Inorganic (several Colleges have labs of their own, e.g., Ch. Ch., Magd.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Queen's), Physiol., Zool., with small expl. garden, Entom., with extensive Collections and Library, Botany (Garden with Collections and Library), Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography), Engineering; Forestry (expl. plantations and forest garden), Model Farm, Human Anat., Path and Bact., two *Observatories*.

There is an Institute for Research in *Agricultural Economics* which has prepared an Agr. Atlas of England and Wales, published by Ordnance Survey Dept. The Director edits the *Journal* of the R. A. S., England.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions, Previous, Matric. examns. of London and of the Northern English Univs., and the Prelim. examns. of various professional bodies, etc. The Regns. of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries at Oxford—C. H. Wilkinson, M. A., Examination Schools, at Cambridge—T. G. Bedford, M. A., 61A St. Andrew's St.

LOCAL EXAMINATIONS are held in March, July, and Dec. at Oxford and elsewhere. Candidates successful in the School Certificate or Higher Local examns., or in the Higher School Certificate examn., are on certain conditions exempted from Responsions. The regns. may be obtained from the Secy. of Local Examns., Merton St. All the examns. are open to persons of both sexes.

EXTRA-MURAL STUDIES. There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy controlling the Dept. has two Committees, one for Univ. Extension Lectures and one for Univ. Tutorial Classes.

Univ. Extension Lectures. The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1922–23 the number of persons attending courses was over 641,000, and the number of students examined 29,632; 21 summer meetings had been held. Reading Univ. Coll. largely owes its origin to extension work. The following certifs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay; affiliation or Higher Certif. of Systematic Study, on a sequence of courses comprising 96 lectures *plus* a general examn.; Vice-Chancellor's, on same conditions as affiliation *plus* examn. in Elem. Maths. and 2 languages. The majority of the lectures are on historical, scientific, or literary subjects. Any Univ. Extension student who avails himself of all the advantages offered, including the Summer Meeting, can secure continuous and systematic instruction in almost any subject for a yearly outlay not exceeding £10. Two Colls. (Ball. and Ch. Ch.) have elected Senior Extension Lectrs. to Fellowships or Studentships in view of their success in Univ. Extension work. Further information can be obtained from the Secy. to the Delegates for extra-mural studies, Acland House, Oxford (Rev. F. E. Hutchinson, M.A.).

Tutorial Classes are held in working-class districts under the supervision of the above-mentioned Committee. Students pledge themselves to a 3 yrs. course. The classes meet once a week for 2 hrs. from Sept. to April, and each

student writes an essay about once a fortnight The Organizing Secy. is E S Cartwright, M.A., Barnett House, Oxford.

PUBLICATIONS *Calendar* (Nov.) 12s 6d. net (includes Honours of each year since Oct 1911 Earlier Honours given in *Historical Register* 1900, 10s 6d net, and its *Supplement*, 1900-1920, 10s 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, Scholarships and Prizes, Offices and their incumbents, etc.). *Responsions* Pamphlet (June), 6d. (Regns. for 1922-24 with dates of exams and general information), *Preliminary Examination in Natural Science* (Regns for 1922-24 and general information) 6d net, *General Information* (admission, residence, exams for B.A., etc.), 7d. post free, *Statutes and Decrees* (Oct.), 5s net, *Examn Statutes* (July), 3s 6d net, Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs), 1s net, *Pocket Diary* for academic year (Oct.), 2s 6d net and 3s. 6d net, *Resident Members*, with their addresses, 2s 6d (annually), *Enactments* in Parliament concerning Ox and Camb, Winchester, Eton, and Westminster, 2 gs., *Univ. Gazette* (official), 6d weekly Oxford Univ *Roll of Service*, 1920, with names (14,561) and records of members of the Univ who served in the Mily. and Naval Forces during the War, 15s net *Oxford of To-day*, a Manual for Prospective Rhodes Scholars, ed L A Crosby and F Aydelotte, 1923, 8s 6d net All the above are obtainable from the Oxford Univ Press and its branches The *Ox and Camb Year-book and Directory*, Sonnenschein, 5s., each part gives short records of living graduates Numerous Histories of the Univ and Colleges have been pubd by the Ox Hist Soc., Hutchinson and Co., and others

EXPENSES. "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. The total cost of living in college might perhaps be estimated at about £60 a term for a man who exerrises reasonable care in his expenditure. At Keble College there is a fixed annual charge (at present £150), covering tuition, the rent of furnished rooms, board, and service The necessary expenses of a non-collegiate student have been estimated at about £81 per annum inclusive, which would make it possible to obtain the B.A. degree after a 3 years' course for a total outlay of £267 10s At the residential Societies for Women Students an inclusive terminal fee is charged This is about £50 a term, but varies slightly at the different Societies"—Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are—(1) Annual Univ dues, £4 10s, College tuition fee, £24 to £31 10s; room rent, £15 to £18, hire of furniture, £6, College clubs, £6, rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial matricn, £4; College admission fee (usually £5, but often less), College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional examn fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B.Litt., or B.Sc., £7 10s.).

What has been stated above regarding the difficulty of estimating expenses at Oxford applies equally to Cambridge. The *Student's Handbook to Cambridge*, 1923-24 (Cambridge University Press, 7s. 6d.), deals with the subject of expenses very fully, and concludes with the following remarks "The

total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £235, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career . . . It is of the utmost importance that the foregoing estimates should not be taken for more than they are worth. . . . The only safe guide to a student's expenditure is information supplied by the college itself at which he decides to enter" The detailed statements on which the above estimate of annual expenditure is based include "guesses" as to personal expenses which the Oxford estimate leaves out of account. The items are —Univ fees (capitation tax), £5 5s, College fees, £54 (tuition, £24 to £30, establishment charge, £18 to £21, College dues, £4 to £10); board and lodging, £110 (rooms and service, £21 to £50, food expenses, £38 to £87, fuel, £5 to £7, laundry, £4 10s to £9), personal expenses, £67 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn £5, furniture, linen, china, etc., and (£2 to £4 10s) cap, gown, and surplice. The "occasional" fees are for examns. £8 (medical, £16 8s), and degree fees, £5. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

THE YEAR 1922-23

BENEFACTIONS Sir Wm Dunn's trustees, £100,000 for School of Pathology and £3000 for adaptation of existing Pathology building as future School of Pharmacology. Bequests for scholarships by C D D. Gibbs, with accumulations from 1900 (Mod Hist and Chem), by Mrs A. P. Read, £3000, by Maria L. Medley, £20,000 (Polit Econ). Gift by Miss Ivy Williams, £7000 for 2 scholarships (one for women) in Jurisprudence, Dr Nanabhai N. Katrak, £1000 2½ per cent stock for founding lect'ship in Zoroastrian religion, Mrs E. Poulton, £200 2½ per cent stock for prize in Nat Sc (Hilda Walker Memorial), Rhodes Trustees, £200 for Reader in Pharmacology, anonymous gift of £150 towards endowment of Chair in Spanish. Duchess of Albany's bequest of collection of Stuart relics, F. H. Trench's bequest of library at Florence. Among grants by Colleges were £1000 for the Bodleian and £250 for Tutorial Classes and Summer School from All Souls.

NEW BUILDINGS, ETC. For the new (Sir Wm Dunn) School of Pathology a site of 2.8 acres in the Univ Park was allocated. The Harmsworth Library of American History was opened.

LEGISLATION Separate Preliminary Examns in Agric and Forestry established. Diplomas in Rural Economy and in Forestry to be open only to those who have passed examns required for the B.A. degree and certain other classes of candidates. Certif. in Mod. Hist. discontinued. Standing for B.C.L. reduced from 20 terms to 12. Provisions regarding "service students" extended temporarily to Officers in the Army and Navy who have been placed on the retired list owing to reduction of personnel. A new status of Indian Forest Service Student established for probationers for the I.F.S. who have obtained an approved degree of an approved Univ. Italian and Spanish added to subjects which may be offered at Responsions and for the Final Pass School.

RELATIONS WITH OTHER UNIVS. The first visiting Fellow on the Jane Procter Foundation at Princeton Univ. was nominated (R. B. McCallum).

The first three scholars on the Henry Davison foundation were elected to the Univs of Harvard, Yale, and Princeton. The Board of the Faculty of Theol sent a resolution of sympathy to the Univ of Berlin on the death of Prof. E Troeltsch. An address was sent to the Univs of Paris and Strasbourg on the occasion of the Pasteur centenary celebrations. Sir Paul Vinogradoff was granted leave for Michs term to lecture in American Univs.

OTHER OUTSTANDING EVENTS Promise by Govt to increase annual grant, with effect from 1923-24, from £30,000 to £60,000 (including £4000 earmarked for women's colleges), with a view especially to superannuation scheme, increase of stipends, maintenance of Bodleian library, and some extension of extra-mural work, also to make a non-recurrent grant not exceeding £35,000 in respect of superannuation arrears. Reorganization of administration of Natural Science Museum. Completion of Survey of Rural Industries.

VISITORS FROM ABROAD WHO LECTURED IN OXFORD Prof A Lefranc of the Collège de France, Dr Felix Adler of Columbia Univ, Prof A Deissmann of Berlin, Prof W Adams Brown of New York.

HONORARY DEGREES *DCL*—Lord Muncie, Sir Robert Baden-Powell, Archbishop Soderblom of Upsala, W J Viljoen. Lord Cave was unable to attend to receive the Degree. *DD*—Sir J C Hawkins. *DLitt*—L C Puiser, E. R. Bevan, Benedetto Croce, E Babelon, J H Breasted of the Univ of Chicago, T R E Holmes, George MacDonald of the Scottish Educn Dept, E Pais of the Univ of Rome, T Reinach, Lord Chalmers, Sir Chas N E Eliot, L de la V Poussin of the Univ of Ghent, R W Rogers of the Drew Theol Seminary, Madison, N J. *DSc*—Sir E Rutherford, L Lapique of the Univ of Paris. *MA*—Sir P D Agnew, J H Salter, Lt-Col J E Turner, N de G Davies, A W Ashley, E H New. The Encenia of 1924 will be on June 25.

OTHER DEGREES *BA* 1129, *MA* 295, *B Litt* 45, *D Litt* 1, *B Sc* 22, *D.Sc* 5, *D Phil* 20, *BD* 8, *DD* 12, *BCL* 23, *BM* 24, *DM* 8, *M Ch* 1, *B Mus* 9, *D Mus* 2.

NUMBER OF UNDERGRADUATES, Michaelmas 1923: men 4712, women 889. Successful candidates in the Final Honour Schools: men 733, women 137, namely—*Litt. Hum*, 112, 8, *Maths*, 14, 1, *Nat Sc*, 144, 10, *Jurispr*, 92, 4, *Mod Hist*, 218, 41, *Theol*, 52, 0, *Oriental Langs*, 2, 0, *English*, 50, 51, *Modern Langs*, 22, 18, *Philosophy, Politics and Economics*, 27, 4.

DEATHS R W M Pope, F H Hall, W P Ker, H Bradley, G B Gray, J Ritchie, J H Skrine, Frederic Harrison, W L Newman, J W Oddie, Sir I B Balfour, Cyril W Emmet, H J Bidder. **RETIREMENT** Dr R W Macan, Master of University College, succeeded by Sir Michael Sadler.

UNIVERSITY EXTENSION WORK 673 lectures distributed in 102 courses at 72 centres, regularly attended by over 12,000 persons. Of the courses 15 were in History, 43 in Lit, 6 in Econ, 17 in Art and Archaeology, 7 in Nat Sc, 8 in Music, 5 in Psychology. 18 full Tutorial Classes and 2 preliminary courses were held with an average attendance of 364. A vacation course for foreign students will be held in Aug 1924, and also a special advanced course in Mediæval History.

THE UNIVERSITY OF SHEFFIELD

VISITOR—H M THE KING

CHANCELLOR—The Most Hon the MARQUESS OF CREWE, K G.

PRO-CHANCELLORS—H K STEPHENSON, D S O , L L D , D L , M P ,
SIR WM E CLEGG, C B E , L L D

VICE-CHANCELLOR—SIR W HENRY HADOW, C B E , M A , D Mus

TREASURER—D VICKERS, D Eng

REGISTRAR—W M. GIBBONS, O B E., M A

LIBRARIAN—A P HUNT, B A

PROFESSORS, LECTURERS, ETC., January 1, 1924

Anatomy [A Jackson Prof
Patten, C J , M A , M D , Sc D
Dub , F R A I
Cobb, J H , M B , B S Lond ,
F R C S (also Lectr in Surg
Anat) Lectr
Nash, Mrs Lucy, M D Lond
(Osteology) Lectr
4 Demrs

Architecture
Carus-Wilson, C D , A R I B A
Lectr
Leighton, H B , A R I B A
Asst Lectr
2 Hon Lectrs for Evening
Courses

Art, v Civic

Biology, v. Zool and Botany

Botany [Lectr
Bentley, B H , M A Ox , F L S
Cole, L W , B Sc Lond
Asst Lectr & Demr

Chemistry
Wynne, W P , D Sc Lond ,
F R S , F I C. Firth Prof
Kenner, J , D Sc Lond , Ph D
Heid (Organic C) Lectr
Tryhorn, F. G., M Sc Liv (Phys.
C) Lectr.

Turner, Emily G , M Sc
Asst Lectr
Bennett, Dorothy M , M Sc
Asst Lectr.
Smith, T B , B Sc Lond
Asst Lectr
Chapman, A W , M Sc Lond
Demr

Civic Art
Rothenstein, W , M A Prof

Classics
Forster, E S , M B E , M A Ox ,
F S A (Greek) Prof
Summers, W C , M A Camb
(Latin) Firth Prof
Whitehead, Florence, M A Manc
Lectr
Craig, J D , M A St And , B A
Ox Lectr

Dentistry, v infra

Economics
Knoop, D , M A Manc Prof
Beales, H L , M A Manc Lectr
Jack, T , M A Glas Lectr

Education
Turnbull, G H , M A. Liv , Ph D
Bonn Prof
Vickers, W , M Sc , M Ed Manc
Lectr.

King, Etheldreda, B A Lond. *

Lectr.

Bone, Woutrina A, B A Lectr.

Bradford, E J. G, M Sc Lond

Lectr.

Engineering, Mechanical

Lea, F. C, D Sc Lond, M I C E

Prof.

Boulden, F, B Sc Lond, M Eng,

M. I Mech E, A M I C E

Senr Lectr

Kershaw, J W, M Sc Manc,

M Eng Senr Lectr

Wall, T F, D Sc Vict, D Eng.

Liv

Lectr in Mech and Elec.
Research.

Hibbins, W G, B Sc Lond,

B Eng, A. M. I. C. E. Lectr

Waite, C W, B Sc Lond Lectr

Davies, H J, B Sc Lond Lectr

Chappell, A J, B Sc Lond,

A M I C E Asst Lectr

Burnet, W. Asst Lectr & Demr

Turner, F C, M Eng, A M I E E

Asst Lectr & Demr

Gulliver, G C Demr

Colburn, J

Head of Woodwork Dept

Engineering, Civil

Husband, Joseph, M Eng,

M I C E, M Am Soc C E,

M French S C E, F R C Sc I

Prof

Fordham, A A, A M I C E,

M I Struct E Lectr

Engineering, Elec [Lectr

Crapper, E H, M Eng, M I E E

Asst Lectrs

Hainsworth, C H, A M I E E

Hunt, F O, A M I E E.

Joyce, T. C, B Sc Lond & Bris,

A M I E E.

Asst Lectr & Demr

Engineering, Mining [Prof

Hay, D, B Sc Lond, A M I C E

Statham, I C F, B Eng, F G S

Lectr

Bevan, E

Lectr

English Lang. and Lit

Smith, G C Moore, Litt D Camb,

Hon Ph D. Louv, LL D St

And Prof

Jones, J D, M A, B A Lond,

Ph D Berl Lectr

White, H M O, M A Dub Lectr

French

Baker, A T, M A., Litt D. Camb,

Ph D Heid Prof

Larg, D G, M A Aberd Lectr

Morand, P., L ès L, Bordeaux

Asst Lectr

Geography

Brown, R N Rudmose, D Sc

Aberd Lectr

Geology

[Sorby Prof

Fearnside, W G, M A Camb

Wilcockson, W H, M A Camb

Lectr.

Lewis, H P, B A Camb

(Asst Lectr in Mining G)

German

Willoughby, L A, M A, D Lit

Lond, Ph D Vienna Lectr

History

Appleton, H W., M A Ox

Prof (Ancient H)

Black, J B, M A Glas and Ox

Prof (Mod & Const H)

Ward, E H, M A Camb

Lectr (Eccl H)

Perham, Marjory, B. A Ox

Lectr (Modern and Const H).

Catlin, G E G, B A Ox

Lectr (Modern H)

Woodruff, J D, B A Ox

Lectr (Modern H)

Law [Prof

Trotter, W F, K C (Scot), LL D,

M A Camb, Barr -at-Law

Metcalfe, O K., M A, LL M (Pub.

and Com L), Barr -at-Law

Lectr

Mathematics

Daniell, P J, M A, Sc D Camb

Town Trust Prof.

Stewart, C A, M.A., B.Sc Glas,
B A. Camb Lectr

Cox, R. R S, B A. Camb
Asst Lectr & Tutor

..... Asst Lectr

Bryan, W. E, M.A Camb
Asst Lectr

Thompson, R Saynor, B Sc (for
Engin) Lectr

Medicine, v infra

Metallurgy

Desch, C H, D Sc Lond, Ph D
Wurz, F R S, F I C Prof

Knowles, F K, M Met (also
Lectr in Dental M)

Sen Lectr

Ibbotson, F, B.Sc. Lond, D Met,
F R C Sc I, F I C (also Lectr
in Dental M) Sen Lectr

Wreaks, J H, B Met Lectr

Orme, F, M Met Lectr

Lobley, A G, M Sc Manc
Lectr (Electro-M)

Percival, R T Demr.

Gregory, E Demr

Mining, v Engin, Geol.

Music

Linfoot, G E, B Mus, B Sc
Lond Lectr

Philosophy [Lectr

Laing, B M, M A, D Litt Aberd

Physics

Milner, S R, D Sc Lond and
Bris, F R S, F I P Prof

Southerns, L, M A Camb, B Sc
Lond Lectr

Lawson, R W, D.Sc Durh,
F I P Lectr

Mathews, Irene M Asst Lectr

Clarke, J R, M Sc, F I P
Asst Lectr

Evans, Morgan H, B Sc Wales
Asst Lectr

Physiology

Leathes, J B, M A, M B, B Ch.
Ox, F R C S, F R C P,
F R S Prof

Eaves, Eliz C, B Sc, M.B, B S.
Lond Lectr.

Imrie, C G, M D Westn, Ont, "

Watson, E M, M D Westn, Ont
Demr

Mellanby, Mrs. (Dental Hist) "

Public Health, v Medicine

Russian

Birkett, G A, M A Liv. Lectr

Spanish

[Hughes Lectr
Birch, J N, B A Lond.

Technology, Fuel

[Prof
Wheeler, R V, D Sc Manc, F I C.

Batley, W A, M Sc Manc Lectr
Wigginton, R, B Sc Lond,

A R C S Lectr

Beet, A E, B Met Demr.

Rees, W J, B Sc. Tech, F I C
Lectr in Refractories

Technology, Glass

[Prof.
Turner, W E S, O B E, D Sc
Lond, M Sc Birm, F I P.

English, S, M Sc, A I C Lectr

Cousen, A, B Sc, A R C S, A I C
Asst Lectr & Demr

Research Assts

Hodkin, F W, B Sc, A I C

Dimbleby, Violet, B Sc

Firth, Edith M, B Sc

Parkin, M, M Sc. Demr.

Zoology

Denny, A, M Sc, F L S (also
Prof of Biol) Prof.

Grove, A J, B A Camb, D Sc
Birm Lectr & Demr

Tetley, H, B Sc Leeds

Asst Demr and Cur of Museum

*Medicine (for subjects of first 2
yrs—Anat, etc., v. supra)*

Dermatology and Radiology

Clin Teachers

Hallam, A R, M D, Ch B Edin
Morrell, R A, L R C P, M R C S

(Rad)

Skinner, E F, M A, M B, B Ch
(Derm) (also Tutor in Med)

Diseases of Children

Leader, H., M B Lond. Lectr
5 other Clin Teachers

Dis of Ear, Nose, and Throat

Wilkinson, G., B A, M B, B Ch
Camb, F R C S

Lectr in Aural Anat and
History of Med
1 other Clin Teacher

Diseases, Infectious

Williams, E. H., M D Brqs,
D P H. Lectr

Diseases, Mental

Vincent, W., M D, B S Durh [Lectr
1 other Clin Teacher.

Forensic Medicine

Carter, G., M B, Ch B Manc.,
D P H Lond Lectr

Medicine, v also Derm

Hall, A. J., M A, M D Camb,
F R C P Prof

Naish, A. E., M A, M B, B Ch
Camb, F R C P Lectr

Barnes, A. E., M B Lond, M B,
Ch B, F R C P Lectr

2 other Clin Teachers

Obstetrics and Gynaecology

Phillips, Miles H., M B, B S
Lond, F R C S Prof

King, W. W., M B Bris Lectr
Stacey, J. E., M D, B S Lond,
M B Lectr (Gyn Anat)

Ophthalmology

Pooley, G. H., B A Camb,
F R C S Eng & Edin Lectr

Snell, H. C., B A, M B, Ch B
Camb Lectr (O Anat)

2 other Clin Teachers

Pathology, v also Surg

Douglas, J. S. C., M A, D M,
B Ch Ox, M Sc Birm

Joseph Hunter Prof

Simson, F. W., M B Edin Lectr

Platt, R., M B, Ch B Demr.

Tingle, Clara D., M B, Ch B „

Edington, J. W., M D, D P H
Edin Dir of P H Bact Lab

Yates, A. G., M D Edin, M A,
M B, Ch B Lond (Lectr in
Med Anat) Demr

Guest, D., M B, Ch B

Asst Bacteriologist

Pharmacology, v also Physiol

Mellanby, E., M A, M D Camb

Prof

Southgate, H. W., M B, B S,

B Sc Lond Lectr

Public Health

Wynne, F. E., M B, B Ch Dub.,

D P H Manc Prof

Anderson, A., M B Aberd, D P H

Demr

Surgery

Connell, A., Ch M, F R C S Edin
(also Asst Lectr and Demr
in Path) Prof

Simpson, G., F R C S Lectr

Cuff, A., B A, M B, B Ch Camb,

F R C S Lectr

Finch, E. F., M D, M S Lond „

Mouat, T. B., M D, Ch B Edin,

F R C S Tutor

3 other Clin Teachers

Tuberculosis [Lectr

Rennie, J., M D Aberd, D P H

Vaccination [Lectr

Chisholm, J., M B, Ch B Edin

Dental Science, v also Met,

Physiol

Law, W. J., L D S (D Anat and

Physiol) Lectr

Froggatt, G. H., L D S (D Mech

and D Surg) Lectr

Stokes, P. S., L D S (D Surg)

Lectr

Watson, C. T., L D S (Orthod) „

Barron, D. C., M D, B Sc Edin

(Med for Dent Students)

Asst Lectr

Skerntt, J. H., L D S Lectr

7 other Clin Dental Teachers

Adult Education

Tutors 7 members of the Staff

and 4 others

GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

LIBRARY, 64,000 vols. and pamphlets. Also Special Applied Science and Glass Technology departmental collections. **RESEARCH DEPARTMENT LABORATORIES** include Engineering (mech, civ, and mining), with complete illustrative power-plant, air-compressors, hydraulic appliances, testing machines, high-speed steel tool-testing lathe, etc, the machine-tool branch being a special feature, Electro-tech (lighting, traction, power transmission, mining, electro-chem), all provided with continuous and alternating currents, provision being made for 12 different combinations for parallel-running, Metallurgical, with plant for experimental melting of steel, including 2-ton Siemens open-hearth furnace, $\frac{1}{4}$ -ton electric arc furnace, cupola, Kjellin induction furnace, and Ajax-Northrup high-frequency induction furnace, crucible steel melting house, micrographic and recalescence laboratories, specially equipped laboratory for electro-deposition of metals, Non-Ferrous, equipped for the lighter Sheffield trades, Glass Technology model factory for dealing with scientific manu on a commercial scale, Fuel Technology. **OBSERVATORY** with $6\frac{1}{4}''$ equatorial. **HOSPITALS** available for clinics include 2 general (517 beds), 3 special (751), and Lunatic Asylum.

FACULTIES Arts, Pure Science, Medicine, Law, Engineering (Depts of Mech, Elec, Civ, and Mining E, Fuel Tech, Glass Tech), and Metallurgy (Ferrous and Non-Ferrous). Dental Department.

DEGREE COURSES 3 yrs—B A (with Honours in Archit—5 yrs, including 2 in an Architect's office), B Sc, LL B (Graduates of a Univ of the U K need only attend courses for 2 yrs, if they have pursued a course for 2 yrs. at some approved institution), B Met (3 yrs' evening courses may be taken by students of 20 yrs of age in lieu of the 2nd and 3rd yrs' day courses), B Eng. ("Sandwich" course 4 yrs), B Sc Tech ("Sandwich" course 4 yrs), 5 yrs (including 3 in the Univ)—M B, Ch B, B D S.

Attendance on approved courses at a Univ or Coll recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs of Paris, Caen, and Leipsic have been recognized in the Faculty of Arts and the Univ contributes towards expenses of undergraduates spending a term there. Courses in Chem, Phys, and Zool at Univ Coll, Nottingham, qualify for entrance for the 1st M B, Ch B.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ in touch with secondary education.

HIGHER DEGREES Obtainable by Bachelors of 1 yr's standing—M A, M Sc, LL M, M Eng, M Sc Tech, M Met, M D, Ch M, M D S, 5 yrs—Litt D, D Sc, LL D, D Eng, D Sc Tech, D Met, open to graduates in Arts of any Univ of the U K after 2 yrs, to graduates of Faculties other than Arts after 3 yrs, of advanced study or research in Sheffield—M A, open to graduates in Science of any Univ of the U K. after 2 yrs of advanced study or research in Sheffield—M Sc, Ph D., v p. 14.

DIPLOMAS Archit, 5 yrs. (including time spent in an Architect's office);

Modern Lang. Teaching (graduates in Arts or others of similar attainments in the Lang), 1 yr. course, **Educn.** (after graduation), 1 yr (special facilities for Pedagogical research); **Domestic Science**, 2 yrs, **L D S**, 4 yrs., **Glass Technology**, 3 yrs (for those with 2 yrs' practical experience, 2 yrs); **Associateship in Engin**, 3 yrs. (Works Pupils and Evening students, 4 yrs), **Associateship in Iron and Steel or Non-Ferrous Metallurgy**, 3 yrs. (evening students, 4 yrs), **Mining**, 4 yrs (6 mos each year in Colliery and 6 in Univ; exemption from first yr. obtainable through examn The Dipl enables a student to sit for the examn for a colliery manager's certifi after 5 yrs' total training, including the time spent in the Univ), **Fuel**, 4 yrs; exemption from first yr in special cases

FEES. **Matricn** £2. **Registn** 21s or 25s **Tuition** for degree courses (approximate) **B A**, £23 15s p a, **B Sc**, £30 p a, **LL B**, about 11 gs p a, **B.Eng.**, **B.Met**, **B Sc Tech** (Glass or Fuel), 37½ gs p a, "Sandwich" course for **B.Eng.**, 4 yrs, £29 10s p a, **M B**, **Ch B**, £190 for 5 yrs' course, including hospi fees, **B D S**, £225 for 5 yrs' course including **Mech Dent.** **Exams**, **Interm**, £2, **Final**, **Pass Degree**, £2, **Honours**, £3 (**M B**, **Ch B** or **B D S** examns, £6 each of 3) **Degree Fee**, £5

SCHOLARSHIPS, ETC, FOR GRADUATES **Sorby Research Fellowship** (administered by Royal Society) for research in Sheffield Labs, about £500 p a for 5 yrs, renewable, **Alfred Tongue Scholp**, £100 for 1 yr for research in **Engin**, **Met.**, or **Chem**, **George Senior Fellowships**, £125 p a, 2 offered annually for research, one in **Engin** and one in **Met**, 4 **Styring Research Scholps**, £100 p a for research in ferrous and non-ferrous metals, **Cutlers' Company Scholp**, £100 p a., several others of from £50 to £100

RESIDENCE, ETC **Stephenson Hall**, for men, fees per session, £90 **Univ Halls** for women, **Oakholme** and **Tapton Cliffe**, £51 to £75 per session A list of supervised Lodgings is maintained, board and lodging cost from 30s to 50s per week **Athletics ground**, 15½ acres The **Union Rep Council** takes a leading part in the Social life of the Univ **Separate Students' Unions** for men and women.

UNIVERSITY EXTENSION work includes **Tutorial classes**, **Free Extension Lectures**, **Collaboration** (for Adult Educn Lectures) with the **Sheff Educn Committee**.

PUBLICATIONS *Calendar* (Oct), 5s, *Floreamus*, a Chronicle pubd at end of each term, annual subs, 2s (the 10 completed vols give a full history of the Coll and Univ, with portraits, etc), *Annual Report* in Nov

THE YEAR 1922-23

BENEFACTIONS. **Alderman R Styring**, £20,000 for foundation of Scholarships. **Donations** to **New Buildings** and **Endowment Fund** during the year amounted to £18,172.

NEW BUILDINGS The new **Field Laboratory** for research in **Pharmacology** is being further extended The **Edgar Allen Physical Testing**, the **Jonas Mechanical Testing**, and the new **Metallurgy Research Laboratories** were opened

HONORARY DEGREES. *D.Eng*—**Douglas Vickers**. *M.A.*—**V. W. Pearson**.

TUTORIAL CLASSES, 38 three-year classes

CHANGES IN REGULATIONS In order to comply with the regulations of

the General Medical Council, students before entering upon a medical degree or a dental course must pass a prelim examn in Physics and Chemistry Courses for this examn may be taken at the Univ

RECOGNITION OF COURSES The Royal Masonic School, Bushey, has been recognized as an institution, education at which, in the subjects Maths., Physics, Chem, qualifies a student who intends to read for an Honours B Sc. degree, to take the Interim B Sc. examn in those subjects at entrance The Univ of Leipsic has been recognized as one at which students of the Faculty of Arts may attend courses of study approved by the Faculty as equivalent to such courses in the Univ.

RELATIONS WITH OTHER UNIVS Visitors who lectured. Prof L. Abercrombie, Sir Oliver Lodge, Dr L P Jacks Debating team of students from Columbia Univ, N Y, debated with representatives of Sheffield Univ.

SPECIAL EVENTS Visit of the Prince of Wales, May 29, 1923.

RETIREMENTS AND RESIGNATIONS With title of Professor Emeritus. A. H. Leahy, Prof of Maths (succeeded by P J. Daniell, formerly of the Rice Inst); W Ripper, Prof of Mech Engin (succeeded by F C Lea, formerly of Univ of Birmingham) Others F. Radford Smith, T B W Spencer, R. Stoncley (accepted post in Univ. of Leeds), A J Saxton, R E Pleasance, Mrs Buttery, J R Thompson (accepted post in Univ of Belfast).

DEGREES CONFERRED B A, 41 (including women—34), B Sc., 63 (women—26), M B, Ch B, 16 (w —6), LL B, 10, B Eng., 27, B.Sc Tech, 14, B Met, 16, Masterships, 67 (w —13), M D, 1, Ph D, 3.

STUDENTS, full-time, taking a curriculum for a first degree Arts, 153 (including women—121), Pure Science, 170 (women—58), Med, 93 (w —22), Law, 13, Engin, 71, Mining, 13, Glass Tech, 6, Fuel, 5, Metall, 37, full-time, taking curriculum for first diploma, 230 (w —47), part-time, 29 Post-graduation, full-time, 31 (w —2), part-time, 46 (w.—5). Other students, 1451.

UNIVERSITY OF WALES

VISITOR AND PROTECTOR—H M THE KING

CHANCELLOR—H R H THE PRINCE OF WALES

PRO-CHANCELLOR—Rt Hon LORD KENYON, K C.V O

VICE-CHANCELLOR—for biennium ending Aug 31, 1925, Principal,
J H DAVIES, M A, Univ College of Wales, Aberystwyth

WARDEN OF THE GUILD OF GRADUATES—ERNEST E HUGHES, M A

CLERK OF THE GUILD OF GRADUATES—F E REES, B Sc

DEAN OF THE FACULTY OF MEDICINE—Prof A M KENNEDY, M D,
Ch B

DEAN OF THE FACULTY OF THEOLOGY—Prof J YOUNG EVANS, M A

REPRESENTATIVE IN PARLIAMENT —GEORGE M ILL DAVIES

REGISTRAR—D B ANTHONY, M A, University Registry, Cathays
Park, Cardiff

SECRETARY TO THE COUNCIL—JENKIN JAMES, O B E, M A

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S WALES AND MONMOUTHSHIRE, CARDIFF

UNIVERSITY COLLEGE OF SWANSEA

ASSOCIATED THEOLOGICAL COLLEGES

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA At *Aberystwyth* Principals—Owen Prys, M A, D D, Prof of *Syst Theol* and *Philos of Religion*, J O Thomas, M A (Acting Principal), Prof of *N T Greek* and *Exegesis* Other Profs J Y Evans, M A, B D, *Eccl Hist*, E N Jones, M A, *Hebrew* and *O T Exegesis*, W Porter, M A, Litt D, *Bib Lit and Theol*, R Morris, M A, B D, *Hist of Christ Doct and of Religion in Wales* At *Bala* Principals and Profs of *Past Theol*—David Phillips, M A, and D Williams, M A

BANGOR, The Baptist and Congregational Jt School of Univ Theol Studies. Principal J T Evans, M A, B D, *Hebrew and O T Canon and Exegesis*, Prof J. Jenkins, M A, B Litt, *N T Canon*, etc, Principal T. Rees, M A, Ph D Lond, B A Ox, *Christ Doct*, etc, Prof J M Jones, M A Ox, B A Lond, *Ch Hist*, etc, Prof T Rhys, B A, *N T Greek*, etc

BRECON, The Memorial Coll. Principal—T Lewis, M A, B D, Prof of *Hebrew*. Other Profs. . D M Edwards, M A., *Dogmatics*, etc, Jos Jones, M A., B D, *Greek*, etc.; John Evans, B A, *Ch. Hist*

CARDIFF, The S. Wales Baptist Coll Principal—W. Edwards, B A, D D,

Prof of *N T Greek*, etc Other Profs. T. W. Chance, M.A., B.D., *Ch Hist*; J. M. Davies, M.A., *Philos*, etc; T. H. Robinson, M.A., D.D., *Hebrew*, etc.

CARMARTHEN, The Presb. Coll Principal—W. J. Evans, M.A., Lectr in *Classics*, etc Other Lectrs M. B. Owen, B.A., B.D., J. O. Stephens, B.A., B.D., Emrys Jones, B.A., B.D.

GENERAL INFORMATION

The Univ was founded by Charter, 1893. The teaching for initial degrees is undertaken by the constituent and associated Colleges, and matriculation in the Univ is open only to students of those Colleges. In the case of an associated College, only to students who are graduates of a Univ of the United Kingdom or of *St David's College, Lampeter*. The Univ prescribes conditions under which it awards initial degrees to students of the Colleges and conducts the final exams. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

As the result of an inquiry held by a Royal Commission in 1916-1918, a Supplemental Charter was granted to the Univ in 1920, which introduced many important changes, including reconstruction of the Univ Court, a deliberative and legislative body, with 263 members, of whom a little over a half are representatives of Local Education Authorities, institution of a Univ Council, as the executive and administrative body of the Univ, controlling the finance and distributing all the funds provided for Univ Education; provision of such funds from a penny rate levied throughout Wales and Monmouthshire, supplemented by an equivalent grant from the Treasury, larger freedom for the constituent Colleges (now increased to four, by the inclusion of Swansea) in the control of the Courses of Study and in the conduct of their own exams for initial degrees, Univ Examiners now taking part only at the final stages, development of a National School of Medicine in connexion with Cardiff College, new Boards for special studies, such as the Board of Celtic Studies and the Council of Music, Univ Press Board, enlarged scheme for extra-mural instruction, Univ Extension Board, Appointments Board.

DEGREES B.A., M.A., Ph.D., D.Litt., B.Sc., M.Sc., Ph.D., D.Sc., B.Mus., M.Mus., D.Mus., LL.B., LL.M., LL.D., M.B., B.Ch., M.D., B.D., D.D.

The minimum period of study for a first degree is 3 yrs. In Music the 3rd yr may be in any approved Coll of Music. The degree in Med is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ., the period of qualification for it is 6 yrs, of which the last 3 may be spent in an approved School of Med in the U.K. or in one of the Univs of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs' course) is post-graduate, the scheme of study is pursued in one of the Associated Theol Colls (v *supra*). The scheme of study for an Honours Degree ordinarily covers 4 years. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs approved for this purpose who pursue a scheme of research for at least 2 yrs in one of the Constituent Colls. As regards Ph.D., see p. 14.

Diplomas in Educn (post-grad Certif and Diploma), Public Health (D.P.H.), Tuberculous Diseases (T.D.D.)

FEES Matricn, £2, exams qualifying for Bachelor degree, from £6 15s; Master, £8, Ph D, £12, higher Doctorates, £20

SCHOLARSHIPS, ETC, FOR GRADUATES The Univ has funds amounting to £3000 p a for the encouragement of research. In addition to 6 Fellowships, it awards studentships on the nomination of the Colls to students who after graduation in Arts or Science engage in work preparatory to research for 1 or 2 yrs

APPOINTMENTS BOARD for Wales (Secy, D B Anthony, M A, Univ Registry, Cathays Park, Cardiff) has been taken over by the Univ from the Appointments Assocn for Wales as one of the University Boards

PUBLICATIONS *Calendar* (Oct), 4s Courses in Div and Matricn and Degree Regns, free Matricn Examn Papers, 6d B D Questions, 6d. Degree Papers, Arts 6s, Science, 5s Bulletin of Board of Celtic Studies, 5s. Publns of the Council of Music

THE YEAR 1923

BENEFACTIONS Dan Radcliffe, £50,000

CHANGES IN REGULATIONS, ETC New regulations for the matricn examn were adopted, reducing the number of subjects required to be passed from 6 to 5—but requiring that all 5 should be passed at one and the same examn, allowing Maths as alternative to Greek or Latin, provided that one language other than English is included, and a branch of natural science as alternative to Maths, and introducing Biology and Music as subjects in the examn

Amended regulations for the LL B were adopted, reducing the period of study for a pass degree to 3 years, and instituting an Honours degree

The teaching of theological subjects in a constituent College was admitted, and a joint scheme of study for the B D degree, submitted by the Univ Coll of N Wales and the Joint School of Univ Theol Studies, Bangor, was provisionally approved

The NATIONAL COUNCIL OF MUSIC was active in promoting the cultivation of Music in schools. At its request a Conference was held in Nov 1922 of representatives of the Board of Education, heads of training colleges, and certain education authorities, at which attention was drawn to the urgent need of provision for the training of teachers, Saturday classes, summer schools, and refresher courses and school orchestras

3 CONFERENCES between representatives of the Univ, the Univ Colleges of Cardiff and Swansea, the Treforest School of Mines, Miners' Welfare Funds, certain County Councils, the Coal Owners' Association, and Miners' Federation on the general question of Mining Education in Wales led to the appointment of a Committee to prepare a scheme for the promotion of the higher types of Mining Education

APPOINTMENTS BOARD. The number of appointments secured through the medium of the Board was 234, including 15 foreign appointments

HONORARY DEGREES CONFERRED D Litt.—Col J A Bradney, Prof O J Bergin, Miss J L Weston LL D—Roger Beck, Sir J T Dillwyn Llewelyn D Sc—Sir C S Sherrington M A—Rev E O Davies, John Evans. OTHER DEGREES B A, 244 (women—120), B Sc, 201 (w—37), LL B, 4, B Mus, 6 (w—2), M B, 1, M A, 27 (w—10), M Sc., 17 (w.—1), Ph.D, 5, D Sc, 3

UNIVERSITY EXTENSION. 54 Tutors were engaged in Tutorial and Pioneer Classes, including 8 full-time and 12 partly engaged in college work. The National Library lent 1716 volumes to 81 Tutorial Classes.

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—SIR

JOHN WILLIAMS, Bart, G C V O, M D, D Sc

PRINCIPAL—J H DAVIES, M.A Ox

VICE-PRINCIPAL—Prof EDWARD EDWARDS, M A

GENERAL SECRETARY—C G BURTON

ACADEMIC SECRETARY—G J WALKER

LIBRARIAN—J D WILLIAMS, B A

PROFESSORS, LECTURERS, ETC., January 1, 1924

Agriculture

Jones, Abel E, B Sc, N D A,

N D D Prof

Phillips, R, B Sc, A I C Lectr

County Organizers, 6

Instructors in Horticulture, 3

Instructresses in Dairying, 7

Agric Botany

Stapledon, R G, M B E, M A.

Camb Prof

Sampson, Kathleen, M Sc Lond

Lectr

Tincker, M A H, B A Camb,

B Sc Lond Asst Lectr

Davies, D W, B Sc

Advisory Mycologist

Plant Breeding Station

Prof Stapledon Director.

Jones, Martin G, B Sc

Agronomist

Research Workers in charge of investigations

Jenkin, T J, M Sc

Williams, R D, B Sc.

Jones, E T, B Sc

Agric Chemistry

Griffith, J J, B Sc Indept. Lectr

Fagan, T W, M A Camb, F I C

Adviser

Davies, R. O, M Sc Asst Lectr

Arabic, v Hebrew

Botany

Williams, J Lloyd, D Sc (also

Lectr in Music) Prof

Jones, S G, M Sc Lectr & Demr.

Carter, P W, B Sc Asst Lectr.

Chemistry

James, T C, M A Camb, D Sc.,

F I C Prof

Bury, C R, B A, B Sc Ox,

A I C Lectr

Hudleston, L J, B Sc, A I C

Lectr

Asst Lectrs & Demrs

Davies, C W, B Sc, A I C

Green, Albert, B Sc, A I C.

Classics

..... (Greek) Prof

Rose, H J, M A Ox, B A. McG

(Latin) Prof

Jenkins, E D T, M A Ox

Indept Lectr

Bensly, E, M A Camb

Spl Lectr (Med and
Renaissance Latin)

Asst Lectrs

Woodward, Miss A, M A. Lond

Owen, Eivion, B A Ox

Domestic Science

Fisher, Miss N Instructress

Economics and Pol Science, v
also Politics [Prof
Lewis, E A, D Sc Lond, M A,
D Litt (Lectr in Palæog)
Rees, J Morgan, M A Lectr
King, Wilham, M A Asst Lectr.

Education

Chapple, C R, M A Lond Prof
Smith, Frank, M A Camb, B A,
B Sc Manc, Ph D Lectr
Roberts, Dorothy E, M A Lectr
Hughes, John, M A Asst Lectr
Jones, Gwenan, M A, Ph D Minn
Asst Lectr.
Green, G H, B Sc Lond, B Litt
Ox Asst Lectr
Rowlands, M Gertrude
Asst Lectr
Jones, Dan R, A R C A, A M C
Art Master.

Instrs in Physical Training.
Stimson, Capt H F
Davidson, Miss M.

English Language and Lit

Atkins, J W H, M A Camb and
Lond Rendel Prof
Winstanley, Lilian, M A Manc
Lectr
Garmonsway, G N, B A Camb
Asst Lectr

French Lang and Lit and Romance Philol [Prof

Barbier, J L A, L ès L Paris
Thomas, A B, D de l'U Lyon,
M A Lectr
Owen, Annie, M A Asst Lectr
Phillips, Eva M, M A
Asst Lectr

Geography and Anthropolgy, v. also Ocean

Fleure, H J, D Sc Prof
Whitehouse, W E, M Sc Lectr.
Harris, Susan Asst Lectr.

Geology

Pugh, W J, O B E, B A, F G S
Prof

Challinor, J, M A Camb, F G S
Lectr.
Platt, J. I, B Sc Manc, F G S
Asst Lectr

German

Evans, David, M A Indpt Lectr.
Rees, Hermia, M A Asst Lectr.

Hebrew and Arabic

..... Prof.

History

Edwards, Ed, M A Camb and
Lond Prof
Jane, L C, M A Ox Lectr

History, Colonial

[Prof
Roberts, T Stanley, M A Camb

Law, English

[Prof
Levi, T A, M A, B C L Ox,
LL B Lond, Barr-at-Law
Parry, D Hughes, B A, LL B
Wales and Camb, Barr-at-
Law Lectr
Van Druten, J W, LL B Lond
Asst Lectr
Jones, T Lloyd, B A Asst Lectr

Logic and Philosophy

Jones, W Jenkyn, M A Camb,
B A Lond Prof
Reid, L A, M A Edin, Ph D
Asst Lectr

Mathematics, Pure and Applied

Schott, G A, B A Camb, D Sc
Lond, F R S Prof
Beatty, S, Ph D Toronto
Spl Lectr
Morton, V. C, B A Ox Lectr.
Asst Lectrs
Sutton, W G L, B A Ox
Webber, W T, B A Camb

Music, v also Botany

Davies, Sir Walford, Mus D
Camb, LL D Leeds, F. R C O
Prof
Williams, Prof J Lloyd, D Sc
Lectr
de Lloyd, David, Mus D. Dub,
B A., Mus B. Lectr
10 Assts

<i>Oceanography</i>	<i>Welsh</i>	[Prof.]
Jenkins, J Travis, B Sc Lond , Ph D Kiel, D Sc Hon Lectr	Parry-Williams, T H , M A Wales, B Litt Ox , Ph D Freib.	
<i>Palæography</i> , v. Econ	<i>Welsh Literature</i>	
<i>Philosophy</i> , v Logic	Jones, T Gwynn, M A. Prof. Lewis, Timothy, M A Manc., B A Reader (Celtic Philol and Palæog)	
<i>Physics</i>	<i>Zoology</i> , v also Ocean	
Owen, Gwilym, M A Camb , M Sc Manc , D Sc Liv Prof	Laurie, R D , M A Ox Prof	
Tunstall, N , B Sc Manc. Lectr	Lewis, E Aneurin, B Sc Asst Lectr	
Asst Lectrs & Demrs	Watkin, E E , B Sc Asst Lectr	
Mandell, W , B Sc Lond	Horsman, Miss E , M Sc Liv	
West, J , B Sc Manc.	Fisheries Naturalist	
<i>Politics, Internat.</i>	<i>University Extension</i>	
Webster, C K , M A Camb	Morgan, Herbert, M A Ox	
Wilson Prof	Director of Extra-mural Studies	
Herbert, S , M A Lectr	16 Tutors	

GENERAL INFORMATION (v. also p. 207)

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a Constituent College of the Univ of Wales Its main building and Students' Hostels are on the sea front, facing Cardigan Bay

LIBRARIES College, 43,500 vols , including the collection of Sir John Rhys Access to the National Library of Wales, founded in 1905, 430,000 vols , rich in Welsh and other Celtic books and MSS **MUSEUMS** Archæol , Bot , Chem , Ethnog , Geog , Geol , Zool The Chemistry **LABORATORIES**, erected in 1907, are the most complete in Wales Agric Expl and Plant-breeding Stations and Training Farm

FACULTIES Arts, Science, Law, Music *Departments* Agriculture, Teaching (Elem and Secondary), Art, and Handicraft, Extra-mural. A special feature is the ample provision for instruction and research in Agriculture A Chair of International Politics was founded in 1919

DEGREE courses in Arts, Science, Law, Music

College Diploma courses Associateship, 2 yrs , Assoc. in Agric , 3 yrs ; Dairying, 2 yrs ; Music ; Geography , Art, 1 yr ; Handicraft, 1 yr.

Courses in Science meet the requirements of the first year of Medical study and the exams of the Pharmaceutical Society

Post-graduate courses (1 yr) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in Agric Botany and Agric. Chem (whole-time Research Botanist, Chemist, Entomologist, and Mycologist), Chem , Geol , Geog , Physics, Zool , English, Welsh, Philos , Maths , Economics, History.

FEES for tuition in Arts, £15 per session ; Science, £20 , Registration, £1 ; Research students, 6 to 10 gs.

SCHOLARSHIPS FOR GRADUATES. 4 for Research, value £27 to £70, open to Colonial and Foreign students as well as to students of the College *See also* under Univ. **TRAVELLING SCHOLARSHIPS** for visiting Continental institutions, average, £20 to £30, total, £500. **RESEARCH STUDENTSHIP**, £200 in Dept of International Politics

RESIDENCE Board and lodging at Hostels: men—55 gs, women—50 to 62 gs per session. Accommodation in Hostels for 60 men and 300 women.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Travelling Dairy School, Tutorial Classes in Econ, Lit., Hist, Welsh Psychology, etc, Summer School annually in Aug.

AFFILIATION. The Coll is affiliated to Ox and Camb., and is recognized by Edin. and N.U.I., by the R.C.P. and S. Eng. and Edin., the F.P. & S. Glas, the R.C.P.I., the Inst Chem, and the Surveyors' Instn

PUBLICATIONS *Calendar* (Jan), 1s 6d, *Aberystwyth Studies*, Students' Magazine, *The Dragon*, Inaugural Lectures

THE YEAR 1922-23

BENEFACTIONS Gifts for general purposes amounting to £1500 A balance of £500 subscribed to the late Principal T C Edwards Memorial Fund was devoted to a Students' Loan Fund A Scholarship Fund was raised by ex-service students for children of ex-service men

NEW BUILDINGS Refectory added to Students' Union (presented by Old Students Assocn)

NEW POSTS Advisory Entomologist and Advisory Mycologist.

OTHER NEW DEVELOPMENTS Development of Museum Schemes.

VISITORS FROM ABROAD WHO LECTURED Prof Gino Fano, of Turin, Prof Deissmann, of Berlin, Dr Martin Nilsson, of Lund

RETIREMENTS. C Hignett, apptd to a Fellowship at Hertford College, Oxford, R Thomas, apptd Lectr in Educn, Cardiff Univ Coll; Malcolm M Lewis, apptd Head of Law Dept, Bristol Univ, C Walmsley, Paul Dienes, apptd Lectr in Maths, Univ Coll, Swansea, H M Roberts, N M Cullinane, Miss M Thompson, Miss G A. Walters, Miss E J Fry, T. J. James, Prof W H Young, Prof J. W. Marshall, deceased, Asst Prof. W. J. Johnston

UNIV EXTENSION Tutorial Classes at 28 centres, attended by 691 students Public Lectures by Prof Foster Watson, Prof E Bensly, and Principal Ernest Barker of King's Coll, London Summer Schools in Geog and Music

STUDENTS Full-time, preparing for bachelorship or diploma, 883 (including women—285); part-time, 86, research, 38 Degrees obtained. B.A., 124 (women—44), B.Sc., 112 (w—12), M.A., 14 (w.—5), M.Sc., 8: D.Sc., 1, LL.B., 4, B.Mus., 3 (w—1), Ph.D., 3.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT OF THE COURT OF GOVERNORS AND CHAIRMAN OF THE
COUNCIL—Rt Hon. LORD KENYON, K C V O

PRINCIPAL—SIR HARRY R. REICHEL, M A , L L D.

SECRETARY AND REGISTRAR—W P WHELDON, D S O , M A , L L B

BURSAR—RICHARD WILLIAMS

WARDEN OF THE WOMEN STUDENTS—MURIEL O DAVIS

PROFESSORS, LECTURERS, ETC., January 1, 1924

Agriculture

White, R G , M Sc Leeds Prof
Roberts, E Jones, B Sc

Asst Lectr
Montgomerie, R F , B Sc ,
M R C V S

Vet Advisory Officer
Lectrs in Bldg Constn , Book-
keeping, Vet Hygiene
County Staffs 2 Organizers ,
Instructors in Cheesemaking,
Dairying, Horticulture and
Poultry-keeping

Agric Botany

Roberts, R Alun, B Sc Adviser
Whitehead, T , M Sc , A R C S
Adviser in Plant Pathology.
..... Asst. Lectr

Agric Chemistry

Robinson, G W , M A Camb
Adviser and Lectr
McLean, W , B A , B Sc ,
A R C Sc I , A I C Lectr
Wilhams, Rice, B Sc Asst Lectr

Agric Entomology

Walton, C L , M Sc Adviser.

Botany

Thoday, D , M A Camb Prof
Davey, A Jane, M Sc Lond
Lectr

Chemistry

Orton, K J. P , M A Camb ,
Ph D , F R S , F I C Prof

Watson, H B , B Sc Lectr.
Soper, F G , B Sc
Lectr in Physical C.

Asst Lectr & Demr
Hunter, L , M Sc Lond

Classics

Hudson-Williams, T , M A , D Lit.
Lond (Greek) Prof
Arnold, E V , Litt D Camb
(Latin) Prof
Whatmough, J , M.A. Manc Lectr.
Lees, Miss M E , M A Manc.
(Latin) Asst Lectr.

Economics

Richards, R D , B Sc. (Econ)
Lond Lectr

Education

Archer, R L , M A. Ox Prof.
Paterson, Alice, M A Edin , Ph D.
Jena Lectr.
Williams, Ivor Asst Lectr.
Thomas, Miss M Asst Lectr.
Hamilton, C R , M A , B Sc.
Asst. Lectr.

Instructors in Drill, Handwork,
and Rural Sc.

English Lang and Lit

Wright, H G , M A Manc Prof.
King, R. W., M A Lond
Asst. Lectr.
Isaacs, J., B.A. Ox. Asst Lectr.

Forestry

Thomson, T, B Sc Lectr

French and Rom Philol [Prof

Fynes-Clinton, O H, M.A. Ox.

Cariou, Mlle H, L ès L

Asst Lectr

German and Teut Philol

Purdie, Edna, M.A Liv Lectr

History [Prof.

The Principal (Constitutional H)

Lloyd, J E, M A, D Lit Ox

(Lectr in Church H) Prof

Turberville, A S, M A, B Litt

Ox Lectr

Shankland, Rev T, M A (Mod

Welsh H) Reader

Dodd, A H, B A Ox Asst Lectr

Logic and Philosophy

Gibson, J, M A Camb Prof

Lewis, Miss G A, M A Lectr

Mabbott, J D, M.A, B Litt Ox

Asst Lectr

Mathematics

Bryan, G H. Sc D Camb,

F.R S Prof

Veitch, Mrs E B, M Sc Lectr

Ferrar, W L, M A Ox Lectr

Music

Davies, E T, F R C O Director

5 Executants and Teachers.

Philosophy, v. Logic*Physics* [Prof.

Jones, E Taylor, D Sc Lond

Mainstone, P A, M Sc Lectr

Williams, W Ellis, B Sc

Lectr in Applied Electricity

Asst. Lectr & Demr.

Jones, H Irvon, B Sc

Semitic Languages

Robertson, E, M A, B D, D Litt

St And Prof

Evans, Principal J T, M A, B D

Spl. Lectr.

Theology, v. also Semitic

Spl Lectrs

Principal Rees and Profs J. M

Jones and T Rhys of the

Congregational College, Bang-

gor (v p 206).

Jones, G Basil, M A (Philos of

Religion)

Deissmann, Prof A, D Theol

Marb, D D. Aberd, St And,

and Manc

Jenkins, J (Gwih), M A, B Litt

Welsh

Morris-Jones, Sir J, M A Ox,

LL D Prof

Williams, Ifor, M A

Prof of W Lit

Parry, R. W., M A. Asst. Lectr.

Zoology

White, P J, M B Edin Prof

Thorpe, Laura, B Sc Asst Lectr

University Extension

Whole-time Lectrs

Jones, E J, B A, Roberts, R.

Silyn, M A Half-time Lectrs.

Dodd, A H, B A, Parry,

R W, M A Many other

members of the Staff give

single courses or combine in

giving a series

GENERAL INFORMATION (v. also p. 207)

This College, constituted by Royal Charter in 1885, was made a constituent College of the Univ in 1893.

The Physics and Chemistry buildings and the Biology laboratory were opened in 1885, and extended in 1892 to provide for Zoology and Agriculture, and in 1911 the Arts dept. was removed to a site, in the heart of the city, of over 10 acres, given by the Corporation. The buildings, including the Great Hall, were opened in 1911 by King George

LIBRARIES General, 50,000 vols Welsh, 15,000, including the largest and

best-equipped collection of Welsh periodicals in existence. MUSEUMS include special collections of fish, shell-fish, and fishing gear and Welsh antiquities FARM, 675 acres, chiefly sheep pasture Dairy

Special facilities are offered for research in Welsh Language and Literature, Political, Social, Economic, and Religious History of Wales, and allied subjects

COURSES B A degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B D. degree, and full courses for the B.Sc in Agric and Rural Economy, Forestry, and Applied Electricity, as well as in Pure Sc College Diploma courses in Agric and in Estate Management (3 yrs), and in Forestry and Elec Engineering (2 years) The Agric course is recognized by the Surveyors' Instn as qualifying for Students' Proficiency examn Other courses. First year of Med study; 1 yr. post-graduate course for Teachers (Elem and Secondary), for Kindergarten Certif—Elem. 1 yr, Higher 2 yrs and 1 term Shorter courses in Agric and Dairy work by itinerant lecturers

FEES Registration, 1 g per session Tuition, per session Arts, £15, Science, £20, Medicine, 1st year (including lab), £22, Post-graduate courses, non-lab, 6 gs, with lab, 10 gs, Agric, etc, diploma course, winter session £15 15s (2 terms), Farm Practical Instruction, £5 (or 2 gs a term) College societies (compulsory), £1 8s

SCHOLARSHIPS, ETC, FOR GRADUATES. Several College awards ranging in value from £22 to £50, open to students of the College See also under Univ

RESIDENCE Hostels for 35 men (£47 p a) and 180 women (£44-£58) Total cost of living in lodgings and tuition in Bangor, from £55 to £65 per session

UNIVERSITY EXTENSION, ETC. Local lectures in Literature, Econ, and Agric, small lending libraries; Tutorial Classes, chiefly for slate-quarrymen and miners The Advisers in Agriculture conduct experiments and give expert advice to farmers and others

PUBLICATIONS. *Calendar* (Sept), 2s 6d, *Students' Handbook*, 1s, *College Magazine*, one issue per term, 1s, Prospectus free

THE YEAR 1922-23

BENEFACTIONS For new recreation ground, £1400, including £1000 from Col David Davies, M P, and the Misses Davies, Llandinam, estate of the late T Williams of Llewesog, £200 towards endowment of Chair of Welsh, anonymous gift of £200 for Music Dept, Miss C Davies, Llanelly, £25 for the Theol Library, N. Wales Heroes' Fund increased to £90,000.

NEW BUILDINGS The N Wales Heroes' Memorial Archway opened by the Prince of Wales, Nov 1, 1923, plans for new Science Buildings completed.

OTHER DEVELOPMENTS Arrangements for establishment of *Faculty of Theology* at this College were completed and teaching, preparatory for the B D courses, was begun, a Vacation School in Theol was instituted in the Easter vacation and proved very successful. The dept. of Forestry established a course (recognized by Land Agents' Society) in *Estate Management* for which a Diploma will be given With the assistance and co-operation of Law Dept. at Univ. College, Aberystwyth, and with support of Chester and N. Wales Law Soc, courses of instruction in *Law* for Articled Clerks were instituted. the lectures will be delivered at Rhyl

RETIREMENT Prof R W. Phillips (*Botany*), succeeded by D. Thoday from Univ of Cape Town *DEATH* Emeritus Prof. T. Witton Davies.

UNIV. EXTENSION Tutorial classes at 9 centres, and Pioneer classes at 15 The classes were not only in Economics, but also in Welsh Lit, Psychol, Music, Geol, and Geog *W H. Williams Lectureship* A class of 12 young quarrymen was in residence for a month during the Summer term, attending lectures on Local Govt, Indust Hist, etc *Special Lectures* open to the public at the College A Clutton Brock, 5 on "Poetry", Dr E Greenly, 10 on "Geology"

The demand for single lectures is still increasing, and every effort was made by the College staff to meet it The College Buildings and Hostels were largely used for *Summer Schools*, including Welsh Language, North-Western W.E.A., and Dalcroze Eurythmics Schools

STUDENTS, full-time, taking courses for first degree in Arts, 249 (including women—139), Pure Science, 138 (women—31), Med, 2, Agr, 7, Forestry, 2, App Electricity, 13, graduate students in Arts, 11 (w—4), Sc, 10, Theol, 6 (w—1), Sec Training, 22 (w—10), other full-time students, 135 (w—61), part-time, 24 (w—8). Degrees obtained B.A., 52 (w—31), B.Sc., 45 (w.—11), M.A., 7 (w.—4), M.Sc., 4, Ph.D., 1, D.Sc., 1.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—The Rt Hon LORD GLANELY

TREASURER—Sir D. R. LLEWELLYN, Bart.

PRINCIPAL—A H TROW, D Sc Lond, F.L.S

REGISTRAR—D J A BROWN
Manc

LIBRARIAN—S O MOFFET, M.A.

PROFESSORS, LECTURERS, ETC, January 1, 1924

Agriculture (Advisory and Research Staff)

Rees, J, B A, B Sc (A Botany)
Thompson, H W, M Sc Leeds
(A Zool)

Bisset, N, M R C V S, F Z S
(Vet Sc)

Anatomy

Hepburn, D, C M G, V D, M D,
C M Edin Prof

Evans, H, M A, D M Ox, M B,
B S, M R C P Lond Demr

Jones, A M, M D, Ch B Edin
Demr

Wade, J O D, M B, M S Lond,
F R C S Demr

Archæology

Wheeler, R E M, M A, D Lit
Lond Lectr

Architecture

Purchon, W. S, M A Lond,
A R I B A Lectr

Botany

McLean, R C, M A Camb, D Sc
Lond, F L S Prof

Crow, W B, M Sc, Ph D Lond,
F L S Lectr

Holmes, Marion G, M.Sc Lond
Asst Lectr & Demr

Chemistry

Jones, W J, D Sc Manc, M Sc,
F I C Prof

Perman, E P, D Sc Lond,
F I C, F C S Asst Prof

Bassett, H Ll, M A Camb,
B Sc Lond, A I C (Organic
C) Lectr

Jones, D C, Ph D J H U, M Sc
Asst Lectr & Demr

Classics, v also German [Prof.
Norwood, G, M A Camb (Greek)
Freeman, Kathleen, B A

Asst Lectr
Braunholtz, G E K, M A Camb
Prof (Latin)

Grundy, W W, M A Camb
Lectr

Economics and Pol Science
Roberts, W J, M A Ox Prof.

Evans, R T, B A Asst Lectr

Education

Phillips, W, M A Prof
Foxley, Barbara, M A Dub Prof

Saxby, Ida B, D Sc Lond Lectr
Training Depts

Smith, Annie Lectr.
Asst Lectrs .

Jones, E J, M A
Barke, Ethel M, M A Dub

Amos, A D, B Sc Lond

Thomas, R, M A
Flight, Miss E. G Teacher in Art.

Engineering

Pippard, A J Sutton, M B E,
D Sc Brs, A M I C E,

F R Aero S, A M I Mech E,
F Inst P Prof

Thomas, S, B Sc, A.M.I.E.E.,
A.M.I.Mech.E. Lectr
Foster, P F., B Sc Lond,
A.M.I.Mech.E.

Asst Lectr & Demr
Barrow, F L, B Sc Birm
Asst Lectr & Demr

English Lang and Lit

Brett, C, M A Ox Prof
McLean, Miss C M, M A Edin
Asst Lectr.

French

Watkin, M, M A, L ès L Ren,
Ph D Zur, O.I.P. Prof
Jones, P Mansell, M A, B Litt
Ox Lectr

Geology

Cox, A H., D Sc Birm, Ph D.
Stras, F G S Prof
Heard, A, M Sc Manc, F G S
Dingwall, Miss J M M, M A,
B Sc Edin

German

Arnold, F T, M A Camb (Asst
Lectr in Latin) Lectr

Histology, v Physiol

History

[Prof.
Bruce, H, M A Ox, F R H S
Rees, Wm, D Sc Lond, M A,
F R H S Lectr

*Hygiene and Public Health, v
infra*

Law

Davies, E, B A Ox Lectr

Mathematics

Livens, G H, M A Camb Prof
Taylor, D G, M A Camb and
Glas, D Sc Glas (Pure M)
Lectr

Pope, A H, B Sc Lond
Asst Lectr

Hayden, H A, B Sc " "

Medicine, v infra

Metallurgy

Read, A. A., D.Met Sheff, F.I.C.,
F.C.S. Prof.

Asst Lectrs & Demrs :

Jones, W R D, M Sc
Handford, C, M Met Sheff.

Mining

[Lectr.
Price, S W, A.R.S.M., M.I.M.E.

Music

Evans, D, Mus D Ox Prof
Lloyd, J Morgan, Mus B Dub
Asst Lectr

Philosophy, Logic and [Prof

Scott, J W, M A, D Phil Glas
Thorburn, J M, M A, B Sc Edin,
B A Lond Asst Lectr.

Physics

Selby, A L, M A Ox Prof
Shaxby, J H, B Sc. Lond,
F Inst P Lectr

Asst Lectrs & Demrs

Young, C L, B Sc
Harker, G H, B A Camb
Crackston, J E, M Sc Liv

Physiology, v also Zool

Brown, T Graham, M D, D Sc
Edin Prof

Daly, I de B, M A, M D Camb
Lectr (Expl P)

Burlend, T H, M A Camb, B Sc
Lond (Histol & Embryol)
Lectr

Pryde, J, B Sc St And (Lectr.
in Physiol Chem)

Asst Lectr and Demr

Sheppard, Edith M, B Sc, F Z S.
Asst Lectr & Demr (Histol)

Semitic Languages

Robinson, T H, M A Camb,
D D Lond Lectr

Welsh

Gruffydd, W J, M A Ox Prof
Williams, G J, M A Asst Lectr

Zoology, v also Physiol [Prof

Tattersall, W M, D Sc Liv
Lloyd, J H, M Sc Birm, F Z S
Lectr

Sheppard, Edith M, B Sc, F Z S
(Asst in Histol)
Asst Lectr & Demr

Medicine, Welsh National School
of (for subjects of first 2 yrs.
—Anat., etc, v *supra*)

Hygiene and Public Health

Collis, E L, M A, D M Ox
Talbot Prof of *Preven-*
tive Med

Williams, E Colston, M D Lond.,
D P H Camb Lectr

Picken, R M F, M B, Ch B,
B Sc Glas, D P H Camb

Lectr
Morgan, W Parry, M A, M D
Camb, B Sc Lond

Lectr (*Bact & Parasit*)

Sugden, J H, M Sc Manc, F I C
Lectr (*Hyg Chem*)

Materia Medica and Pharmacology, v also Med

Stevens, W Mitchell, M D Lond,
F R C P Lectr *

Medicine

Kennedy, A Mills, M D, Ch B
Glas

Prof, Dir of Med Unit
Davies, Ivor J, M D Lond Asst *

Evans, H T, M A, M D Ox,
M B, B S Lond Asst *

Buist, J J, M B Lond
Lectr (*Forensic M*)

Howell, A, M D Lond

Lectr * (*Dis of Children*)

Beatty, J, M A, M D Dub,
D P H

Lectr * (*Dermatology*), &
Asst Lectr in *Mat*
Med

Goodall, E, C B E, M D, B S
Lond, F R C P

Lectr (*Mental Dis*)

Lewis, Cyril, M D, C M Edin *

Obstetrics and Gynaecology

Maclean, Sir Ewen J, M D, M Ch
Edin, F R C P Prof

Strachan, G I, M D, Ch B Glas,
F R C S, 1st Asst

Collins, B K Temison, M A, M D,
B Ch Camb 2nd Asst

Collins, E Temison, M R C S *

Pathology and Bacteriology, v
p 221

Surgery, v also p 221

Sheen, A W, C B E, M S Lond,
F R C S Prof

Grant, J W Geary, F R C S *

Hammond, T E, F R C S Asst

Haycraft, J B, M B, Ch B Edin,
F R C S Asst

Cook, H G, C B E, M D, B S
Lond, F R C S *

Griffiths, Cornelius A, F R C S *

Martin, W, M A, M B, C M,
B Sc Glas *

Wade, J O D, O B E, M B,
M S Lond, F R C S *

Harnes, D J, M D, B S Lond,
D Sc, F R C S *

Creswell, F P, M B, B S, B Sc.
Lond, F R C S

Lectr * (*Ophth*)
Davies, D Leighton, M D, M S

Lond, F R C S * (*Ophth*)

Thomas, J W Tudor, M B, B S
Lond and Wales * (*Ophth*)

Paterson, D R, M D, C M Edin
Lectr * (*Oto - Rhino -*

Laryngology)
Greaves, H Gordon, M B., B Ch

Camb Lectr (*Anæsthetics*)

University Extension

Tutors, 19 (including a few
members of the College Staff)
Joint Secy.—D J A Brown,
Regr.

* On Staff of Infirmary and Recognized Clinical Teachers in the Med School.

GENERAL INFORMATION (v. also p. 207)

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. The Medical School was opened in 1894, the Engineering School in 1896. New College Buildings, containing the Arts and Administrative Blocks and the Drapers' Company's Library, were opened in Cathays Park (wherein the Univ. Offices are also located) in 1909, the William Jones Memorial Physical Research Laboratory in 1912. Physiological Dept. Buildings were completed and occupied in 1919, and formally opened in June 1921 by the Prince of Wales, who at the same time laid the foundation-stone of the buildings of the Dept. of Public Health and School of Preventive Medicine. In Oct. 1921 the development of the Medical School into the "Welsh National School of Medicine" enabled provision to be made for complete courses for a Degree or other qualification to practise Medicine.

LIBRARY. Drapers' Company's, 52,000 vols. **MUSEUMS:** Anat., Mat. Med., Path., Zool. The National Museum of Wales (Art, Archaeol., Zool., Geol., Bot.) is located in an adjoining building. **LABORATORIES.** Physical Research, with liquid-air plant, etc., Engineering (including 100-ton testing machine), and usual Science and Medical teaching and Research labs. The Cardiff Royal Infirmary (between 300 and 400 beds) is within five minutes' walk of the College. Clinical facilities are available also in other local hospitals.

FACULTIES. Arts, Science, Medicine (Welsh National School of Medicine). **Departments.** Music, Applied Science and Technology, Teaching (Elem. and Secondary), Advisory and Research Dept. in Agric.

COLLEGE DIPLOMAS. Engineering, Metalliferous Mining, Metallurgy; Welsh Lang. and Lit., Economics and allied subjects, Music, Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years, in the other subjects, 2 yrs. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs' residence being required. After a 4 yrs' course students who desire to specialize in certain subjects can take a post diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs' course. The *Associationship* of the Coll. is given to students who attend the Coll. Classes for not less than 2 sessions, and who graduated at a Univ. in the U.K. or are otherwise qualified.

AFFILIATION. The Coll. is affiliated to Cambridge and (through the Univ. of Wales) to Oxford.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. See also under Univ.

FEES. Annual Composition for tuition—Arts, £15, Science, £20, Music, £15, Applied Science, £20 (Non-associated Counties, £30), Medical, £25 to £35, Hospital practice, Perpetual Hospital ticket, £12 12s., Teacher Training, £15 to £20 (Private Students, £35), Research, 6 to 10 gs., Registration, 1 g. p. a.

RESIDENCE. 2 Hostels for women. Sessional Fees, £65 to £75. Board and lodging in the town can be obtained at about £2 per week.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *Students' Handbook*, *Cap and Gown*.

THE YEAR 1922-23

BENEFACTIONS £470 for Appeal Fund ; for School of Mines, £100 , Dr W. Price bequest, £7500 for Sch of Med. , I Roberts and J G Jones, £100 each

NEW DEVELOPMENTS Appeal for £250,000 endowment , Petition for new charter , Courses of Instruction in Law for Articled Clerks and others The foundations of the new Physics and Chemistry Buildings in Cathays Park have been completed.

RETIREMENTS AND RESIGNATIONS Miss F W Rea , Miss J C Armishaw , Dr S H Watkins (on apptmt. as Prof of Ed at Univ Coll of South-west of England) , C V Miller (on apptmt as Lectr in Civil Eng at Armstrong Coll) , Prof G A T Davies (deceased) , Dr D Leighton Davies

EXTRA-MURAL WORK Univ Tutorial Classes, 17, with 392 students , Pioneer, 10, with 228 students Lectures by members of the College staff included courses on such subjects as Comparative Religion and General introduction to Biblical Studies, lectures on Archæological subjects, and (in association with the College Trio at County Schools in South Wales) Music, and lectures by the Profs of Preventive Medicine and Tuberculosis

STUDENTS, full-time, taking courses for first degree, 699 (including women—254) , graduate students, 63 (women—27) , others, 232 (w—73) ; part-time undergraduate, 34 (w—8) , graduate, 18 (w—7) Degrees obtained B A , 85 (w—48) , M A , 9 (w—1) , B Sc , 66 (w—11) , M Sc. , 4 , D Sc , 2 , B Mus , 3 (w—1) , M B , 1 , also London degrees—B Sc , 1 ; M B , 5 , M.D , 1 , M S , 1

Continued from page 219]

Pathology and Bacteriology
Emrys Roberts, E , M D Prof *
Haig, H A , M B , B S Lond
Lectr

Surgery
Rhys, O. Ll , M D Edin
Lectr (*V D and Radiology*)

Evans, T G , M D Lond ,
D M R E Camb (*Physio-
Therapy*)

Evans, Miss Ene, M B Lond.
(*V D*)

Smith, S A , D S O , O B E ,
Ch.M., M D Edin (*Orthop S*).

* Ob. 15 1 24.

UNIVERSITY COLLEGE OF SWANSEA

PRESIDENT—F. W GILBERTSON.

PRINCIPAL—T. FRANKLIN SIBLY, D Sc Lond. and Bris., F G S.

REGISTRAR—EDWIN DREW. **LIBRARIAN**—OLIVE M BUSBY, M A Lond

PROFESSORS, LECTURERS, ETC., January 1, 1924

Biology
Mockeridge, Florence A, D Sc Lond, F L S Lectr
Rees, Miss E M, B Sc Lond Asst Lectr
Hilton, Irene A F, B Sc Liv Asst Lectr & Demr

Chemistry
Coates, J E, O B E, D Sc Birm, M Sc, F I C. Prof
Hinkel, L. E, M Sc Lond, F I C Lectr (Organic C)
Ayling, E E, B Sc Lond, A I C Asst Lectr
Butler, J A V, M Sc Birm Asst Lectr

Classics
Evans, Prof D Emrys, B Litt Ox, M A Prof
Grube, G M A, B.A Camb Asst Lectr
Hill, H, M A Sheff Asst Lectr

Education
Cavenagh, F A, M A Lond. Prof

Engineering
Bacon, F, M A Camb, A M I C E, M I M E., M I E E Prof
Isaacs, R G, M Sc Bris, B Sc Lond, A M I E E Lectr (Elec E)
Burness, H H, B Sc St And, A M I C E Lectr. (Civ E)
Caswell, J S Asst Lectr

English
Thomas, W D, M A Ox, B A Prof
Taig, T, M A Glas Asst Lectr

Geology
Trueman, A. E, D Sc Lond, F G S. Lectr.
Stuart, A, M Sc Durh Asst Lectr
History [Lectr
Hughes, E E, M A Ox, B A
Jones, G Nesta, M A Asst Lectr

Mathematics
Richardson, A R, B Sc Lond, A R C S Prof
Dienes, D, P Phil Buda Pest Lectr
Wilson, R, M A Ox Asst Lectr
Keeping, E S, B Sc Lond, D.I.C, A R C S (M and Physics) Asst Lectr

Metallurgy [Prof.
Edwards, C A, D Sc. Manc
Coe, H I, M Sc Birm. & Wales Lectr.
Norbury, A L, M Sc Manc Asst Lectr
Pfeil, L B, B Sc Lond, A R S M Asst Lectr

Modern Languages
Williams, Mary, D de l'U Paris, M A Prof
Husband, J H, M A Sheff
Diverres, P, M A Liv., D ès L Rennes, Officier d'Académie Asst Lectrs

Physics, v also Maths
• Evans, E J, D Sc Lond, B.Sc., A R C S Prof
Jones, W. Morris, M A. Camb, M Sc, F Inst P. Lectr.

Wright, L, M Sc Sheff

Asst Lectr

University Extension

Welsh

Lewis, Henry, M A

Prof.

The Joint (College and W E A)

Lewis, Saunders, M A Liv

Asst Lectr

Tutorial Classes Committee

employ one full-time as well

as part-time Tutors

GENERAL INFORMATION (v. also p. 207)

Incorporated by Royal Charter, dated Jan 21, 1920, the College was made a constituent College of the Univ of Wales under the terms of a Supplemental Charter granted to the Univ on Aug 13, 1920

The administrative offices, assembly hall, library, common rooms, and refectory, in addition to the Arts and some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of the building and equipping of the new Departments of Physics, Chemistry, and Metallurgy on an adjacent site. The Dept of Engineering is temporarily housed in the buildings of the Swansea Technical College. The foundation-stone of the College buildings was laid by H M the King on July 19, 1920

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up

FACULTIES Science and Arts Departments Metallurgy and Engineering, and Training of Teachers (men and women) for Elem and Sec Schools

COURSES FOR DEGREES, ETC Courses (3 years) of study are provided in preparation for the degrees of the Univ in Pure and Applied Science and Arts, also in preparation for the College diplomas in Metallurgy and in Engineering, also Complete Prelim Science Course for medical students and classes in Law for articled clerks

FEES For tuition in Pure or Applied Science, £20, Arts, £15, Registration, £1 is p a, for Research, from 6 to 10 gs

RESIDENCE Hostels for men and for women students. A list of Registered Lodgings is kept by the Registrar

THE YEAR 1922-23 **BENEFACTIONS** Swansea Chamber of Commerce (Coal Export Committee), £800, Catherine Davies, £25, annual subscriptions, £6000, other gifts, £107. **BUILDINGS** for Metallurgy, Physics, and Chemistry completed, total cost of buildings and equipment approximately £65,000. **RESIGNATIONS**. Dr J Marshall, appointed to a Readership at the Bedford College for Women, succeeded by Dr P Dienes from Aberystwyth Univ College, S A. Handford, appointed Assistant Lecturer in Classics at King's College, Miss D I Adam. **STUDENTS**, full-time in Arts, 84 (including women—44); Pure Sc, 68 (w—16), App Sc, 41; Med, 5, graduate, 9, dipl, 2; part-time, 104 (w—49). Degrees obtained B Sc, 13, M.Sc, 1, Ph.D, 1.

UNIVERSITY COLLEGE OF THE SOUTH- WEST OF ENGLAND, EXETER

PRESIDENT—H.R.H. THE PRINCE OF WALES and DUKE OF CORNWALL

DEPUTY PRESIDENT—SIR HENRY Y B LOPES, Bart, M A, D L

PRINCIPAL—H J W. HETHERINGTON, M A Glas

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

PROFESSORS, LECTURERS, ETC., January 1, 1924

Astronomy

Lockyer, W J S, M A Camb, Ph D Gott Hon Lectr

Biology

Sager, J L, M A Camb Lectr
Cumming, A M, A R C S I Asst Lectr

Chemistry

Lewis, W H, M A Ox, F I C [Prof
Glasstone, S, Ph D Lond, A I C Lectr in Physical C
King, Miss R, M Sc Lond Lectr

Classics

Fletcher, F, M A Ox. Lectr
Gordon, Mary L, M A Ox Asst Lectr

Education and Psychology

Watkins, S H, M A Walcs, Ph D Leip Prof
Walker, Miss A J., M A Birm, B A Lond. Lectr
Mathias, Miss S. Y, M A Liv Asst Lectr
Owen, W J, M A Asst Lectr
8 Assts and Pt-time Lectrs and Instrs in Teachers' Training Dept

English

Morgan, A E, M A Dub Prof.
Gollancz, Prof. Sir I (v. p 113)
Hon Leofric Lectr. in Old E
Peach, L du Garde, M.A Manc, Ph D Sheff Asst Lectr

Buckhurst, Helen M'M, M A Ox Asst Lectr
De Reyes, Miss C M, B A Birm Asst Lectr

Geology and Geography

Clayden, A W, M A Camb, Visiting Director
Lewis, W S, B Sc Lond, F G S. Lectr
Williams, D T, B.A Wales Lectr

History and Economics

Harte, W J, M A Ox Prof
Patterson, E J, M A Camb Lectr

Asst Lectrs

Wilkinson, B, M A Manc
Whyte, W H, M A Leeds

Keltic

Jenner, H, M A Wales
Hon St Petrock's Lectr

Law

Morgan, J G, B A Ox, LL B Lond Lectr

Mathematics

Brown, T A, B Sc Edin, B A Camb Prof
Mallinson, H V, B A Camb Asst Lectr
Sadd, Miss G D, B A. Lond Asst Lectr

Modern Languages

Schopp, J W, M A Lond. Lectr

Lockyear, Miss J. I, B.A Lond.
Asst Lectr
Rouillot, G, L ès L Asst Lectr
Villedieu, Mdle. Y E. Asst

Physics
Newman, F. H., D Sc. Lond.,
A.R.C.Sc. Lectr.
Searle, V H L, B Sc Lond.
Asst. Lectr.

Music

Bullock, E, Mus D Durh,
F.R.C.O. Lectr.

Pharmacy

Ware, A H, Ph C Lectr

Philosophy

The Principal Prof.
Levine, I, M A. Glas Lectr

University Extension

Chairman of Committee for Ex-
ternal Studies and Joint Hon.
Sec. for Tutorial Classes
E J Paterson, M A Tutors
Prof's A E Morgan and W J
Harte, W H Whyte, I
Levine, W S Lewis.

GENERAL INFORMATION

Founded 1865 Organized as University College, 1901. Incorporated
1922

Classes in Arts, Science, Economics, Law, Agr. and Horticulture prepare for degrees of Univ. of London. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. The Training Department is recognized as a Training College for Elem and Secondary teachers. Attached to the College is a School of Pharmacy. The Royal Albert Memorial Library (60,000 vols) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College.

ADMISSION Minimum age, 17 though relaxation may be made under special circumstances

TUTORIAL BOARDS in Arts and Science have been appointed to supervise the studies of students

FEES Sessional. Intermediate course, 16 to 20 gs ; final course in Arts, 20 gs., Science, £25.

AFFILIATION. The College is affiliated to the Univs of Ox and Camb. It is recognized by the Camb. Special Board for Med, and the Conjoint Med. Board as a place of instruction in Chem, Physics and Biol, etc

RESIDENTIAL FACILITIES For *women*—(a) Hartwell House (36), sessional fee, £50-£58; (b) College Hostel (68), (c) Diocesan Church Hostel (30) For *men*—Grendon House (55), £60. All women students not living at home must reside in hostel. Men students may live in licensed lodgings cost about 30s. per week for board and lodging. All students in lodgings are subject to the discipline of the Supervisor of Lodgings.

PUBLICATIONS *Calendar*, issued (free) in July; *College Magazine* (terminally); the *College Field Club Proceedings*.

THE YEAR 1922-23

BENEFACTIONS. Sir E. Channing Wills bequest, £900; Lord Hambleden, £500; W. P. Hiern, £250. Lady Northcote, £200. T. B. Rowe, £100; Messrs.

Wheaton, £50 ; Anon , £1000 , Andrew Simon bequest, £1250 for post-grad. and research scholarships

NEW BUILDINGS Refectory and temporary class-room accommodation. Plans for new buildings were prepared

NEW DEPARTMENTS AND POSTS. A Dept of Law providing courses at Exeter and Plymouth in preparation for exams of the Law Society (by whom it is approved as a Law School for the purposes of the Solrs ' Act, Part II) and London LL B , a Dept of Extra-mural studies , Hon Lectr. in Astronomy

OTHER DEVELOPMENTS Recognition by Inst of Chem for preparation for A.I.C and F.I.C Increase in number of degree students from 96 to 139 Final Examn. at the College for Board of Educn 's Teachers' Cerif. Univ. extension centre at Torquay

CO-OPERATION A Joint Scholarship Committee composed of members of Senate, Heads of Secondary Schools in Devon and Plymouth, and representatives of county Authorities to conduct examn for award of Scholarships 2 conferences with Extension organizations of Oxford, Cambridge, Bristol, and Southampton

RESIGNATIONS H A S Wortley, apptd Prof of Educn in Univ College, Nottingham, succeeded by S H Watkins from Univ Coll, Cardiff , L B. Benny, apptd Principal of Tech Inst , Leigh, succeeded by T A Brown from Univ Coll, London , Miss R C Easterling, apptd Tempy Lectr in Palæog , succeeded by B Wilkinson from Univ of Manchester , Miss H M Cook, apptd Maths. Mistress in Greenhead School, Huddersfield, succeeded by Miss G Sadd from Bedford Coll , London , H T Michelmores , J Mayoux , W. J. Williams, apptd. Asst Dir of Educn , Middlesbrough

INTERCHANGE Prof A E Morgan of the English Dept delivered a course of lectures at the summer session of Columbia Univ

UNIVERSITY EXTENSION Several single lectures were delivered by members of the staff, and a course was arranged for the ensuing session. A scheme for organization of Extension Lectures in co-operation with the Univs of Oxford and Cambridge is under consideration. 3 Tutorial Classes and 5 one-year classes were held

STUDENTS. Full-time, preparing for first degrees, 136 (women—69), of whom 59 (w—28) were in teacher-training dept ; other full-time, 179 (w—105), of whom 161 (w.—100) in training dept.; evening class, 53 Tutorial class students, 278. Degrees obtained B A , 11 , B Sc , 11.

UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace the DUKE OF PORTLAND, K G

VICE-PRESIDENTS—Sir JESSE BOOT, Bart , Alderman E HUNTSMAN
(Chairman of Council), Lt -Col HENRY MELLISH, C B , JOHN G.
SMALL, J P

PRINCIPAL—W H HEATON, M A

REGISTRAR—J E SHIMELD

PROFESSORS, LECTURERS, ETC., January 1, 1924

Biology

Carr, J W, M A Camb Prof

Lectrs and Demrs .

Holden, H S, D Sc Manc

Bexon, Dorothy, M Sc Lond

(Bot)

Chesters, Alice E, B Sc Liv
(Zool)

Hutchinson, Harriet J (Histology
and Physiology)

Chemistry and Metallurgy

Kipping, F S, Ph D Mun , D Sc
Lond , F I C, F R S Prof

Lectrs and Demrs .

Prideaux, E B R, M A N Z.,
D Sc Lond

Lambourne, H, B A Camb,
B Sc Lond, F I C

Firth, J B, D Sc Manc, F I C

Trotman, S R, M A Camb,
F I C

Watson, F S, M Sc Manc.

Laxton, F C, B Sc Lond, A I C

Driver, J E, B Sc Lond

Bentley, A O, Ph C

Classics and Philosophy

Granger, F S, D Lit, M A Lond
Prof

Lectrs

Barker, E. P, M A, D.Litt.
(Classics).

Mace, C A, M A Camb (Psych)

Saunders, H F, B A, B D
(Hebrew)

Economics and Commerce

Kirkaldy, A W, M A, B Litt.

Ox, M Com. Birm Prof.

Radford, A, B Sc Econ Lond

Lectr in E

Howard, S C Lectr in C.

Mosley, J W P, Barr -at-Law

Lectr in Comm'l Law.

Blythen, S, F C A, Prof of Acctcy

Lectrs in Acctcy.:

Cairns, R G, A C A

Cullen, W E, A C A

Brewill, B H, A C A

7 Lectrs. in Insurance and Practi-
cal Banking

Education

Wortley, H. A S, M A Ox Prof

Lectrs

Newton, W H, B Sc Lond

Moncrieff, Miss A, M A Edin

Becket, Miss E M, M A Lond

Ward, Miss L M

Adam, Anne K

Drew, A, B A Ox

Lectrs in Hygiene and in Needle-
work

2 Lectrs. in Phys Exercises.

Engineering and Technology, v.
also Textiles [Prof of E
Bulleid, C H, O B E, M A Camb,
A M I C E, M I Mech E
Robinson, W, M E Belf, M I C E,
M I Mech E Prof. of T

Lectrs and Demrs :
Richardson, W A, D Sc, B Sc
(Eng) Lond (Civil E)
Cotton, H, M B E, M Sc Lond
(El E)
Dickson, J M, B Sc Lond (M E)
Walter, E R, B Sc
Bedford, J, A M I Mech E,
A M I A E.
Wilde, J H, B Sc (Eng) Lond
Bird, A W, B Sc Lond (Geom
and Applied Mechanics)
Hollingworth, W. (Pattern Mak-
ing)
Parr, A (Metal Work)
20 other Technical Teachers

English
Bond, R W, M A Ox Prof
De Castro, Inez Lectr
Hewitt, R M, M A Ox Lectr
Selby, Alice Lectr

Geology and Geography [Prof
Swinnerton, H H, D Sc Lond
Beasley, C G, B A Lond

Lectr in Geog
Richardson, W A, D Sc Lond
Lectr in Geol

Chft, S G, B Sc Lond
Lectr in Geol

Hebrew [Lectr
Sanders, H F, B A, B D Lond

History
Owen, L V D, M A Ox Prof
Guilford, E L, M A Camb Lectr
Brameld, Nina, M A Lond Lectr

Hygiene and San Sc
Cotterill, W H, M R San I
Sutton, J A, Cert R San I

Law
Huntsman, E. Director & Lectr

Mathematics
Piaggio, H T H, M A Camb,
D Sc Lond Prof
Green, H G, M A Camb Lectr
Wells, F A, B A Camb Lectr
Underwood, F, B Sc Lond
Lectr

5 other Lectrs
Metallurgy, v. Chem.
Military Science [Dir
Pickbourne, Capt H, B A Lond
2 Lectrs and Instrs

Mining
McMillan, W H, B Sc Glas,
M I Min E Prof
Watkins, W G, M I Min E,
M I Mech E Lectr
Whitaker, J W, B Sc Lond,
A I C Lectr
Watson, J M R, B Sc Glas,
A M I Min E. Lectr
Jones, W A, M I Min E Lectr

Modern Languages
Weekley, E, M A Camb Prof
Lectrs

Peck, Mrs L (English Phonetics).
Bourdache, E, B ès L (French)
Guigou, Mlle M, L ès L (French)
Schweizer, W R, Ph D (German)
Moroni, Mme (Italian)
Hewitt, R M, M A Ox (Portu-
guese)

Lavrin, Prof J (Russian and
Slavonic)
Chamberlain, G L, M A Edin
(Spanish)

Music
Johnson, B, Mus B Director
Lectrs

Henniker, L, Mus Bac
Cantelo, Annie
Barber, E M., L R A M.
Mountney, F

Physics [Prof
Barton, E H, D Sc Lond, F R S
Lectrs and Demrs :
Shaw, P E, B A Camb, D Sc Lond.
(Dir Sub-Dept., Metrology)

Franks, A H, B Sc Lond.
Browning, Helen, M Sc, Ph D
Lond, F Inst P
Davy, N, B Sc Lond
Brookes, A, M Eng Manc
3 other Lectrs and Demrs in
Telegraphy, etc

Physiology, v Biol

Technology, v Engin., Textiles

Textiles

Davis, W, M A Edin. Prof
Lectrs
Barr, J (Yarn Testing).

Trotman, S R., M A Camb.
F I C (Dyeing and Bleach-
ing)

Richardson, L G (Dyeing and
Bleaching)

6 Demrs.

Zoology, v Biol

University Extension

Peers, R, M A Liv Prof.
De Sola Pinto, V, M A
Kerman, Miss F, B A
Sewell Harris, E, M A
2 other Lectrs and an Organizer

GENERAL INFORMATION

The College, opened in 1881, is in the centre of the city The Free Public Library is at present housed in the College building New buildings are being erected on a site 3 miles distant

COURSES For London degrees in Arts, Econ, Com, Div, Pure Science, Med, Agric, Engin, and Mining, Associateship of the College in Comm, Geog, Adult Education, Engin, Mining, Mine Surveying, Hosiery, Dyeing and Bleaching (each 3 yrs), Social Study Diploma (1 yr), Bd of Educn. Elem Teachers' Certif and Cambridge Secondary Teachers' Diploma, L D S, Assoc'ships of the Insts of Chem and Physics, Colliery Manager's Certif, Civil Service Appointments, D P H, Pharmacy Diplomas, Post-grad and Research courses in Arts and Pure Science Special English course for Foreigners

Evening Classes, including some held on Thursday aftn and Sat morning and aftn, for London B Sc, B Sc Econ, B Sc Engin and Interm Arts, St And, L L A, Comm, Dispensing and Pharmacy, Engin and Technology, Mining, Textiles, including Yarn Testing, Hosiery, Dyeing.

The session for Day Classes is Sept-July, Evening, Sept-April.

FEES Tuition composition, per annum Interm or Degree courses in Arts, Div, or Econ—20 gs, in other Faculties, or Diploma courses in Commerce, Geog, Engin, Mining, Mine Surveying, Pharmacy, or for A I C.—30 gs; Social Study Diploma (complete course)—£10, L D S—18 gs; Colliery Manager's Certif—6 gs, D P H (complete course)—30 gs, English course for Foreigners—£12; Registration fee, £1 p a, Union fee, £1 rs p a.

Evening Classes, 15s per session

RESEARCH SCHOLARSHIPS in Arts and Science of from £50 to £75 are awarded annually in Dec Special facilities for research in all subjects

RESIDENCE Mapperley Hall (men) and Cavendish House (women) primarily for Elem Training students Waverley House (men) and Hollygirt (women)—inclusive fee, 30s and 27s 6d. per week. Registered lodgings, 30s. to 40s Students are, when possible, placed with private families

PUBLICATIONS. *Calendar* (Oct), 1s, Day and Evening *Prospectuses*, 2d; *The Gong*, 3 times a year

THE YEAR 1922-23

BENEFACTIONS H C Roe bequest, £1000 for Dept of Textiles

RESIGNATION S H Straw on accepting a post in Univ. of Manchester, succeeded by S. G. Clift from Secondary School, Grimsby.

UNIVERSITY EXTENSION WORK Tutorial classes, 34, preparatory, 25, extra-mural class students, 1344, 6 other courses of lectures, 34 public lectures in the college Summer school attended by 54 students. The Notts Miners' Welfare Committee voted £500 p a for organizing lecturer for adult educn in mining districts of Notts

STUDENTS Full-time, preparing for bachelorship, 205 (including women—68), for diploma, 369 (w—105), research workers, 37, total day students, 738. Extra-mural class students, 676 Degrees obtained B A, 26 (w—14), B.Sc., 55 (w.—1), B Sc Eng., 9, B Sc.Econ, 4, M A, 1, M Sc, 4.

UNIVERSITY COLLEGE, READING

VISITOR—THE DEAN OF CHRIST CHURCH, OXFORD.

PRESIDENT OF THE COURT OF GOVERNORS—J H. BENYON, M.A , Lord-Lieutenant of Berkshire

VICE-PRESIDENTS—SIR HALFORD J MACKINDER, M A , Mrs G. W. PALMER , A PALMER (CHAIRMAN OF COUNCIL)

PRINCIPAL—W. M CHILDS, M A

TREASURER—SIR WILLIAM A MOUNT, Bart , C B E , M A.

SECRETARY AND REGISTRAR—F H. WRIGHT, M A.

TUTORIAL SECRETARY—H KNAPMAN, M A

PROFESSORS, LECTURERS, ETC., January 1, 1924

Agriculture, etc , v infra

Art (Department of Fine Arts)
Seaby, A W Prof
7 Teachers and an Asst in Drawing and Painting, Design, Modelling, Handicrafts.

Botany, v also Agr
Stiles, W, M A , Sc.D Camb Prof
. Lectr
Prankerdt, Theodora L , B Sc
Lond , F L S. Lectr

Chemistry, v also Agr [Prof
Bassett, H, D Sc. Lond , Ph D
Mun., D. ès Sc Nancy, F.I.C.
Dodgson, J W , B Sc Lond
A.I.C. Lectr.
Maxted, D R , B Sc Lond ,
A R C Sc Lectr
A Sessional Lectr

Classics

Ure, P N , M A Camb Prof
Dodds, E R , B A Ox Lectr
Haigh, W , M A , B Sc Lond
Lectr. (in German also).
Leigh, Margaret, M A Ox Lectr.

Ure, Annie D , B A Lond
Hon Research Fellow

Commerce

Taylor, H , F L A A. Lectr.
2 Assts

Dairying, v. infra

Domestic Subjects

Wood, Mrs E May
Lectr. in charge of Dept.
3 Assts. and a Teacher of Dress-making and Needlework

Economics

Buer, Mabel C , B Sc Lond Lectr

Education

[Sen Lectr
Cooke, H S , M A Ox and Cape
Ashcroft, Lucy, M A Dub Lectr.
Bolam, Mary, M A Dub Lectr
Etty, J L , M A Ox. Lectr.
Mellor, Ethel, D ès Sc Paris,
A R C Sc Lectr.
Wolters, A. W P , M A Lond
Lectr.

Glason, J A , M B E. Asst Lectr.
Walker, Alice H , A R C O.
Asst Lectr.

A Lectr , Asst., and Sessional
Instr. in Physical Training.

English Language & Lit [Prof
Dewar, R, M A Glas (E Lit)
Morley, Edith J (E Lang) Prof
Dodd, Annie E, M A Ox Lectr
Lee, Margaret L, M A Ox Lectr
A Sessional Asst in Phonetics

French [Prof
Desseignet, J, Ag de l'U Paris.
Paton, Dora A, B A Ox Lectr.
Salmon, Yvonne M, L ès L Lectr

Geography
Spicer, E C, M A Ox Lectr.
A Sessional Lectr and Asst

Geology
Hawkins, H L, D Sc Manc,
F G S Prof
Dwerryhouse, A R, D Sc Leeds,
M Sc Manc, F G S Lectr

German, v Classics

History, Modern
Stenton, F M, M A Ox Prof
The Principal Hon Prof
Sacret, J H, M A Ox Lectr
Stenton, Mrs F M, B A Lond
Lectr
Peyton, S A Asst Lectr

Mathematics
Neville, E H, M A Camb Prof
Ashcroft, Lucy, M A Dub Lectr
Clatworthy, J P, B Sc Lond
Lectr
Knapman, H, M A Camb Lectr
Ternouth, Elsie J, M A Glas
Lectr
Bowler, F T, B Sc (Eng) Lond,
A M I C E (Applied Mech)
Asst Lectr
A Teacher of Machine Drawing

Music
Allen, Sir Hugh P, M A Camb,
D Mus Ox Visitor of Dept
17 Teachers.

Philosophy
De Burgh, W. G, M A. Ox. Prof
Ward, S. B, B A Ox Lectr.

Physics
Duffield, W G, B A Camb, D Sc
Manc and Adel Prof
Bond, W N, M Sc, B Sc. (Eng)
Lond, A.R.C.Sc. Lectr
Pearson, R L, A M I E E Lectr.
Littlewood, T. H, M A Ox,
B Sc Lond.
Hon Research Fellow

Psychology
Wolters, A W P, M A Lond
(also Lectr in Educn) Lectr

Spanish
A Sessional Teacher.

Vet Hygiene, v Agric
Zoology
Cole, F J, D Sc Ox Prof.
Eales, Nellie B, B Sc, Ph D Lond.
Lectr
A Museum Asst

Agriculture and Horticulture

Agriculture
Pennington, S, B Sc Edin,
M R C V S [Prof
Robinson, H G, M Sc Durh Lectr
Simpson, J S, B Sc Leeds
Costings Officer
1 Asst to Costings Officer
An Instr in Poultry
County Organizer and 4 Instrs for
Berkshire

Agr Botany [Prof
Percival, J, Sc D Camb, F L S
Erith, Adela G, B Sc Lond Lectr
Grieve, Lorna, B Sc. Lond Demr

Agr Chemistry, v also Dairy C
Neville, H A D, M A Camb,
B Sc Lond, F I C Prof
Murray, J A, B Sc Edin Lectr
Nicholson, H H, M A Camb
Lectr
Thompson, J, Ph D Heid, F I C
Analyst
Harris, E T., B A Camb, A I C.
Demr etc.

Bacteriology, v also Dairy B
Mason, Grace H, N D D Lectr

Building Construct., etc [Lectr.
Hitchins, W W, M S A, P A S I
An Asst

Dairy Farming
Mackintosh, J, O B E, N D A,
N D D Lectr
An Asst

Dairy Bacteriology
Williams, R S, M B, C M, B Sc
Edin, D P H Camb
Research Prof
2 Assts

Dairy Chemistry
Golding, J, F I C
Research Chemist

Mattick, Mrs E, M Sc Brs
Asst. for Research

Economic Mycologist
Buddin, W., M.A Camb.

Horticulture
Cobb, A J Lectr and Instr
2 Assts

Machinery
An Instr

Plant Pathologist
Mosley, F O, F L S

Veterinary Hygiene
Male, G P, M R C V S Lectr

University Extension

Tutors, 3.

BRITISH DAIRY INSTITUTE (occupying a building on the College site and controlled by a committee representing the British Dairy Farmers' Assocn and the College) Manager and Chief Instructor—A Todd 2 Asst. Instrs

GENERAL INFORMATION

"The University Extension College, in conjunction with the Schools of Science and Art, Reading," was opened in 1892 and incorporated under the Companies Acts in 1896, and became the University College, Reading, in 1902. It has an endowment of £250,000

LIBRARY, 29,000 vols MUSEUMS Zool and Hist and Archæol LABORATORIES Bot, Chem, Geol, Physics, Psych, Zool Fine Art Studios. School of Music Gymnasium Two farms (359 and 141 acres) and Hortic Station

FACULTIES Letters, Science, Agric and Horticulture (associated with which are the National Inst for Research in Dairying and British Dairy Inst).

DEPARTMENTS Fine Arts, Music, Domestic subjects

ADMISSION Candidates for Degree courses must matriculate before admission Entrance examn for Diploma courses in Agric, Dairying, Hortic, Domestic subjects

DEGREE COURSES are provided for the London B A, M A, Ph.D., B Sc (Pass and Hons), B Sc in Agric. (3 yrs) and Hortic (4 yrs), and the 2nd examn for Med degrees, Pt I, of London

COLLEGE DIPLOMA (Associateship) COURSES 2 yrs—Agric, Commerce, Dairying, Domestic subjects, Educl Handicrafts, Hortic, Letters; 3 yrs.—Fine Art, Music, Distinction in Agric, Dairying, Domestic subjects, or Hortic.

OTHER COURSES for College Certifs in Agric (6 mos), Commerce, Domestic subjects, Geog, Hortic, Phys. Training, Secretarial subjects (1 yr),

Metal Work, Wood Carving, Embroidery, Leather Work, Weaving, Writing and Illumination (2 yrs), for the 1st examn of the R C P. and R C S, the Camb Teachers' Certif (1 yr), British Dairy Farmers' Assocn examns (6 mos), L.R A M, A R C M, etc, Special courses in Illustration and for women teachers of Phys Training in Continuation and Central Schools

FEES For Tuition Degree or Diploma course—Arts, £25 p a, Sc, £30 p a (Dairying, £35 for 1st, £41 for 2nd year, Fine Arts, £18); Certif. course—£18 to £30

SCHOLARSHIPS, ETC, FOR GRADUATES Two Research Fellowships, and several Scholarships in connexion with the HALLS OF RESIDENCE, which provide accommodation for 400 students, men (£80 per session of 30 weeks) and women (£54 to £64) Sanatorium attached

UNIVERSITY EXTENSION, ETC Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc Evening classes are held in Machine and Building Constn, Builders' Quantities, and most of the subjects in which Day courses are provided Tutorial classes are held in connexion with the W E A .

PUBLICATIONS *Calendar* (Sept), 6d, *Tamesis* (students'), terminally

STUDENTS. Full-time, preparing for first degree, 282 (including women—192), for first diploma, 288 (w—192), post-graduation and research, 6, other day students, 339, evening, 593 Degrees obtained B A, 15 (w—12), B.Sc, 16 (w—3), B Sc Agr., 9 (w—1); B Sc Hortic, 1 (w), M Sc, 1

THE UNIVERSITY COLLEGE OF SOUTHAMPTON

VISITOR—H R H. THE DUKE OF CONNAUGHT AND STRATHEARN,
K G , K P , K T

PRESIDENT—CLAUDE G MONTEFIORE, M A , D D

VICE-PRESIDENTS—SIR BEETHOM WHITEHEAD, K C M.G , M A . ;
ALEX HILL, M A , M D , F R C S

TREASURER—SIR RUSSELL BENCRAFT, M R C S , L R C P

PRINCIPAL—KENNETH H VICKERS, M A

REGISTRAR—GEORGE GRANT, B A

PROFESSORS, LECTURERS, ETC., January 1, 1924

Art [Instructress
Conway, Miss E I , A R C A
2 Assts

Botany
Mangham, S , M A Camb Prof
Loader, Miss F M , B Sc Lond
Lectr
Palmer, Miss, B Sc Lond Demr

Chemistry
Boyd, D R , D Sc Glas , Ph D
Heid , F I C Prof
Smith, A E Clarence, B A Camb ,
A I C Lectr in Physical C
Smith, F J , B Sc Lond
Asst Lectr
Tully, J D , B Sc Lond , A I C
Demr

Classics
Forsey, G F , M A Lond Reader
Sinclair, T A , B A Camb
Asst Lectr

Commerce [Reader
Scholfield, A , M Com Manc
Plummer, A , B Sc Lond Lectr

Education and Philosophy
Cock, A A , B A Lond Prof
Dudley, G , B A , LL B R U I
(Lectr in Logic) Sr Lectr
Green, Mrs A , M A Manc Lectr

Kelly, V G F , B Sc Lond
Lectr
Steel, Miss M J , M A Edin
Lectr
Ricks, Miss E M Asst Lectr
i Instr in Handicraft

Economics, v also Comm
Scholfield, A , M Com Manc
Reader.

Engineering, Civ and Mech
Eustice, J., B Sc Lond , A R S M ,
A M I C E Prof
Mann, E E , M Sc Leeds,
A M I C E Lectr
Glover-James, H , Dip. Eng Edin.
Lectr.
Ford, G P Asst
Moyle, R C Demr

Engin , Elec , v Physics

English
Margolouth, H M , M A Ox Prof
Aubrey, Miss E R , M A Lond
Lectr
Crawford, S J , M A Belf , B Litt
Ox Lectr

Geography
Rishbeth, O H T , M A Ox
Reader
Miller, Miss F C , B A Leeds
Lectr

Geology and Zoology

Sherriffs, W. R., M.A., D Sc
Aberd Reader

History

Lyttel, E S, M A Ox Prof.
Horrocks, J W, D Lit Lond Lectr
Harlow, V. T, B A, B Litt Ox Asst Lectr

Hygiene for Men

McKaig, Andrew, M B, Ch B
Edin Lectr

Hygiene for Women

McKaig, Mrs Andrew, M B, Ch B
Edin Lectr

Law

[Reader
Cook, W. G H, LL D, M Sc

Mathematics, Pure and Applied

Watkin, E L, M A Camb Prof
Casson, R, B A Camb Lectr.
Trout, Miss A M, B A Lond Lectr

Music

Leake, G, Mus Bac Durh.,
F R C O Prof
Harvey, A H, F R C O, L R A M,
A R C M Lectr
Faulkner, Mrs, A R C M Lectr.

*Philosophy, v Educn**Physics & Electrical Engineering*

Stansfield, H, D Sc Lond,
A M I E E Prof
Spary, P G, B Sc Lond, M Eng
Sheff, M I E E, A.M.I.C.E.
Lectr in Electro-technics.
Tomlinson, H J, B Sc Lond,
A I E E Lectr
Chester, C E, B Eng Sheff,
A M I E E Asst Lectr
Cox, H. B., O.B.E. Demr.

Romance Languages and German

Patchett, E W, B A Camb Prof
Hamilton, Miss G H Lectr.
Olivier, Claire Asst Lectr

Spanish

[Lectr.
Lindsay, B, Ph L, Valladolid

Zoology, v Geol

GENERAL INFORMATION

Founded 1850, opened as the Hartley Institution, 1862 Incorporated as the Hartley University College in accordance with a scheme of the Board of Education, 1902

Classes in Arts and Science prepare for the degrees of the Univ of London, a Commercial course for the B Sc (Econ) and B and M Com The Coll has a Dept of Engineering—Civ, Mech, and Elec It provides courses for Elem. and Secondary Teachers, for entrance into the Civil Service, the first year of Med Study, Pharmacy, Surveying, etc It is recognized as a Training Coll for Elem. Teachers It is affiliated to the Univ of Camb. Through its Evening Classes (attended by upwards of 600 students) it performs the function of a Technical Institute A Dept of Law, instituted in 1923, is recognized as a Law School under the Solrs' Act The *Associateship* (Assoc U C S) implies, unless honorary, attendance at day or evening classes during at least one full session *Diplomas* are awarded in Commerce, Engin, and Geog

ADMISSION The minimum age for both Day and Evening students is 16 Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

FEES. The sessional fee is £25 for Courses in Arts, £30 for Courses in Science or in Engineering (students whose parents are ratepayers within County Borough, Southampton—£18. 15s. and £22. 10s.).

SCHOLARSHIPS FOR GRADUATES. One of £50 One of instruction fees in Educn Loan fund for senior students

RESIDENTIAL FACILITIES. South Stoneham Hall of Residence for men, Warden—Prof A A Cock, B.A South Hill, Hall of Residence for Women, Warden—Mrs Ashdown. Highfield Hall, a Hall of Residence for Women, Warden—Miss E. R. Aubrey, M A

PUBLICATIONS *Handbook*, pubd in Sept. ; *Hartley Mag*, terminal, 6d

THE YEAR 1922-23

A NEW DEPARTMENT of Law was established and recognized by the Law Society under the Solrs.' Act.

2 Milner-White SCHOLARSHIPS—£70 p a for 3 yrs. and £35 p.a. for 2 yrs — will be awarded in May 1924

STUDENTS Full-time, preparing for degrees, 143 (including women—69) ; other full-time, 192 (w.—110) ; evening, 425. Degrees obtained. B A., 5, B Sc., 15, B Sc.Eng, 8, B Sc Econ, 2, B.Com, 2.

THE SCOTTISH UNIVERSITIES

ST ANDREWS
GLASGOW

ABERDEEN
EDINBURGH

REPRESENTATIVES IN PARLIAMENT

SIR GEORGE A BERRY, M B, LL D., DUGALD M'COIG COWAN,
M.A., Rt Hon SIR HENRY CRAIK, K C B, M A, LL D

IN CONSTITUTION these 4 Universities have under the operation of the Univs (Scotland) Acts, 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ Court and General Council, were instituted, by the latter a Committee of H M's Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St And the Provost of St Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St Andrews) Town Council. In St Andrews the Principals of St Mary's Coll and Univ Coll, Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ, is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs under the Act of 1889, to found new chairs with the approval of the Univs Committee and make other ordinances with the approval of H M in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ, examiners and lecturers, to define the nature and limits of a professor's duties under his commission, and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs, and certain Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the *Senatus* and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs, such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament*.

FACULTIES In all the Univs—Arts, Science, Divinity, Medicine. In all except St Andrews—Law. In Edin. only—Music. In Glas. only—Engineering.

SESSIONS Oct. to March and April to May or June. The winter session is divided into 2 terms. In Divinity there is no regular summer session at Glas. or Aberd.

ADMISSION (v. also p. 5) The Preliminary Examn. Regulations prescribe for a candidate for a first degree in Arts or Science or Medicine that before entering on the curriculum he pass on specified standards an examn. in (1) English, (2) Latin or Greek, (3) Maths, (4) another (approved) language or Dynamics, provided that Science and Medical Students may substitute French or German for Latin or Greek, and candidates for the B.Sc. in Engineering need not pass before entering on the curriculum, but only before taking any part of the First Science examn.

Exemption (pro tanto) is granted in consideration of having passed approved equivalent examns. Candidates from abroad, whose native language is other than English, must pass a Special examn. in English (held in March and Sept., in set works and an oral examn.). Candidates from the British Empire overseas, whose native language is English and who have passed examns. which would admit them to Univs. or Tech. Colleges affiliated to Univs. in their own country, will be exempted, but candidates for degrees in Engineering must show they have a sufficient knowledge of Mathematics (*e.g.*, if from India, such as is implied by a satisfactory pass in the Interim examn. of an Indian Univ.). Indian students must have passed an Interim or Final Arts examn. Similarly the Baccalauréat-ès-Lettres or ès-Sciences will exempt from the Prelim. examn. for Arts or Science courses respectively or for Medical courses, and Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Univs. of his own country will similarly exempt other students from the continent of Europe.

N.B. A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy,

Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations

Argentine Certificates giving admission to the Univ of Buenos Ayres, the B A degree of St John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy, and, if including Arabic, English, Maths, and—for Arts courses—French, the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examn

Applications for exemption on the ground of having passed any of the above-mentioned examns, *or on other grounds*, should be addressed to the Secretary of the Entrance Board, 81 North Street, St Andrews.

DEGREES and courses leading thereto (v also p 10) The *M A* (ordinary) course (there is no *B A*) extends over 3 yrs and, except at St And (v p 275), includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang and Lit, Ment Philos, Science, Hist and Law A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses The first 2 yrs may be taken in any of the Scottish Univs The Senatus may accept attendance given and examns passed at other Univs specially recognized for the purpose, provided that qualifying courses for at least 2 yrs are attended and the Degree examns are passed in the Univ granting the degree For the purpose of reckoning duration of study an academic yr is constituted by attendance on at least 1 course (Glas and St And, 2 courses) of study in each of the 3 terms The degree is never conferred *honoris causa* For *M A* (Hons) 4 yrs' study is generally required

The *B Phil* and *B Litt* are conferred only by St And A candidate for either of these degrees must take the *M A* either before or along with it The standard of the Final examn is that of the *M A* Honours

The *B Com* conferred by St And, Aberd, and Edin may be taken, under conditions as to place of study similar to those for the *M A*, after courses covering at least 9 terms

The *Ed B* involves a 2 yrs' course subsequent to the first 3 yrs of study for a previous degree, in addition to Professional training or experience as a teacher

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying for their certificates.

The B Sc in Pure Science The course for the ordinary degree covers 3 yrs (Edinburgh 4 yrs) and includes from 7 to 9 courses, of which 4 or 5 must be taken in the Univ which is to grant the degree The other 3 or 4 courses may be taken in other Univs or Institns. approved, or under teachers recognized for this purpose, by the Univ Court The degree with Honours requires 4 yrs, and is of a standard not less high than that required for *M A* (Hons)

The B.Sc in Applied Science can be obtained in Agric (Aberd, Edin, Glas.), Applied Chem (Glas), Tech Chem (Edin), Engin

(Edin., Glas., St. And), Mining Engin (Edin , Glas.), Forestry (Aberd , Edin), Pharmacy (Glas), Pub Health (Edin , Glas), Vet Sc (Edin). The course for the B Sc in Applied Chem , Tech Chem , Agric (Edin), or Vet. Sc covers 4 yrs , in Pub Health 18 months (after graduation in Med), and in other branches 3 yrs The degree of B Sc in Engineering of Glasgow, now an Honours Degree, also covers 4 yrs

Higher Degrees in Arts and Science The D Sc in Pure Science, in Engin (Edin , Glas , St And), Pub Health (Edin , Glas), Tech Chem , Agric , and Vet Sc (Edin), and the D Litt are open to graduates of 5 yrs 'standing A thesis is required and, except in the case of a graduate of a Scot Univ. with an Honours degree (St And , a graduate of the Univ granting the degree), research under supervision extending over 2 yrs in the Univ which is to grant the degree These degrees are never granted *honoris causa*

Divinity The B D examn of any of the Univs is open to a graduate in Arts (1) of the same Univ who has taken a complete Theol course in a Scot Univ or other specially recognized Institn , (2) of any Scot or other specially recognized Univ who has completed his Theol. course, of which not less than 2 yrs has been in the Univ, in which he proposes to take the B D The D D is honorary The Gifford Lectures in Natural Theology are open to the general public

Law The B L course (3 yrs) is open to students who have passed the Arts Prelim or its equivalent, with Latin (Higher Standard) as one of the subjects The LL B (3 yrs) is open to graduates in Arts of a Univ of the U K or any other specially recognized

Of the B L course 1 yr and of the LL B 2 yrs may be spent in any specially recognized Univ or School of Law

St And does not at present provide full courses for or grant these degrees The LL D is honorary

Medicine Three of the requisite 5 yrs of medical study for the M B and Ch B may be spent in any Univ of the U K or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ A candidate who has at any such Univ completed a course and passed an examn in Chem , Physics, or Biology qualifying for a degree in Science, Arts, or Med may be exempted by the Senatus from the corresponding part of the M B , Ch B examns Aberd and St And extend this concession to courses and examns in Anatomy and Physiology qualifying for a degree in Science (St And —or Arts or Med)

A graduate in Medicine of at least 24 yrs of age who has, subsequent to graduation, been engaged for at least 1 yr in attending the Med (or Surg) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milt , Colonial (Aberd , Edin , Glas), or, for the M D (St And —M D or Ch M), Pub Health Med Services, or 2 yrs in practice not restricted to Surg (or Med), and passed the prescribed examn and submitted a satisfactory thesis, may be admitted M D or Ch M as the case may be.

Ph D See p 14.

FEES The Matriculation, 2 gs. *per annum* , inclusive Tuition fees

per annum in Arts are 15 gs, in Science 25 to 30 gs, examn. fees for M.A., 7½ gs, B.Sc., 9 gs; M.B., Ch.B., 33 gs., graduation, £1. Further information is given in the several Univ sections

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

APPOINTMENTS COMMITTEES have been constituted in all the Univs to help students to find employment.

SCHOLARSHIPS Provision for affording Univ instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the numerous bursaries, etc., awarded by the Univs, and the Carnegie Trust benefactions (*v infra*), the Provincial Committees for the Training of Teachers award bursaries, according to the necessities of students, of from £5 to £25, and travelling, hostel, and other special allowances, and Secondary Education Authorities may assist any duly qualified person resident in their areas to enter or attend a Univ, Training Coll., etc.

Scholarships, etc., for Graduates The following are open to graduates of all the Scot Univs: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £80 each for 2 yrs for graduates in Arts. Ferguson Bequest Fund, 94 Bath St, Glasgow. (3) M'Cunn—two of £200 and two of £400 for 1 yr, for medical research. M'Cunn's Trustees, 160 West George St, Glasgow. (4) Shaw Philosophical—£200 for 5 yrs for graduates in Arts (in the Patronage of Edinburgh Univ). (5) Blackie—in Greek, £170 for 1 yr for graduates in Arts who are students of Theology.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, Hanover Street, Edinburgh. Secretary, Jas Robb, LL.B.; Treasurer, Jas Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education, the other half to (B) assisting Scottish students in the payment of Univ class fees. Any surplus not required for (B) in any year is to be devoted to (A). Institutions in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial education of University level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide,

inter alia, that applicants should hold the Leaving Certif of the Scottish Educn. Dept bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has to pass any further prelim examn before completing his graduating curriculum. The annual report of the Exec. Committee contains reports of experts on the work of beneficiaries and lists of papers published by them.

Research Fellowships, Scholarships, and Grants awarded for 1922-23
St Andrews—23, value £3746, Glasgow—25, value £1984, Aberdeen—8, value £1160, Edinburgh—31, value £4031. Total—87, £10,921.

Class Fees paid for 1922-23. St A—£4655 for 357 beneficiaries, G—£24,117 for 2089, A—£8831 for 774, E—£16,335 for 1357.

Under a Fourth Quinquennial Scheme of Distribution for the period from Oct 1, 1920, to Sept 30, 1925, there has been allocated a sum of £224,300, distributed thus St A centre—£37,200, G—£69,500, A.—£42,250, E—£75,350.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE At this Conference, which is held annually, and meets in rotation at St Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs discuss matters of general interest to them all. The Students' Representative Council of each Univ sends 4 delegates, one of whom must be a woman-student. The convener of the Inter Academic Committee (v p 19) also attends and reports on the work of the National Union of Students for Scotland, and each Univ's Union and Students' magazine are represented. The President and Secretary of the Conference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs concerned. By providing a common meeting-place for the students of the Scottish Univs, this Conference is largely responsible for the feeling of solidarity which is a marked feature of student life in Scotland. The 30th meeting was held at Glasgow in January 1923, when R Edgar Rawson, M A (S R C Office, The University, Edinburgh), was appointed Corresponding Secretary for the N U S.

UNIVERSITY OF ABERDEEN

CHANCELLOR—His Grace THE DUKE OF RICHMOND AND GORDON, K.G.,
G C V O, C B, LL D

VICE-CHANCELLOR AND PRINCIPAL—Very Rev Sir GEORGE ADAM
SMITH, M A, D D, LL D, Litt D, F B A

RECTOR—Rt Hon Sir ROBERT S HORNE, G B E, P C, K.C., M A,
LL B

SECRETARY OF THE UNIVERSITY—H J BUTCHART, D S O, B L

CLERK AND REGISTRAR OF GENERAL COUNCIL AND LIBRARIAN—P J
ANDERSON, M A, LL B

UNIVERSITY COURT

PRESIDENT—THE RECTOR
THE PRINCIPAL, *ex officio*
THE LORD PROVOST OF ABERDEEN,
ex officio

J E. CROMBIE, M A, LL D
Sir JOHN FLEMING, LL D
H J. GRAY, M A, B L
D M M MILLIGAN, M A
GEORGE DUNCAN, M.A.

GEORGE SMITH, M A, LL D.
J SCOTT RIDDELL, M V O, C B F E,
M A, M B, C M, LL D
Prof MATTHEW HAY, M D, LL D
Prof ASHLEY W MACKINTOSH,
M A, M D
Prof J B BAILLIE, O B E, M A,
D Phil
Prof H. M MACDONALD, O.B.E.,
M A., F.R.S.

PROFESSORS, LECTURERS, ETC, January 1, 1924

Accounting & Business Methods
Reid, J, M A, C A Lectr

Agriculture, v also Eng, Nat
Hist, Vet Hyg [Lectr
Profet, W J, M A, B Sc (Agr)
Donald, G, B Sc (Agr) Asst
Findlay, W M (Seed Testing) Asst

Agric Botany
Clark, R M, B Sc, F L S Lectr
Coutts, E H M, M A, B Sc Asst

Agric Chemistry
Hendrick, J, B Sc Lond
Strathcona-Fordyce Prof
Hill, Alfred, B Sc, B Sc (Agr) Asst
Hendry, F. W F, B Sc Asst

Anatomy, v also Embryol
Reid, R W, M D, F R C S Reg Prof
Lockhart, R D, M B Lectr
Lyall, Alex, M A, M B Asst
Mulligan, J H, M B Asst

Art
Kelly, W, LL D (Principles of
Archit) Lectr
Rollo, R Leshe (Hist of Archit) Lectr
Townend, H (Painting) Lectr
Profs Bailhe and Harrower Lectrs

Astronomy
 Lectr

Banking
Cowie, R H Lectr

Bio-Chemistry

Beard, E, B Sc, A I C Lectr

Biology, v Nat Hist.

Botany

Craib, W G, M A, F L S
Reg Prof

Skene, MacG, D Sc

Lectr in Veg Physiol

Barnett, Euphemia C, B Sc Asst

Downie, D G, B Sc, B Sc (For)
Edin Asst

Celtic and Comp Philology

MacDonald, John, M A Lectr

Chemistry, v also Agric.

Findlay, Alexr, M A, D Sc, Ph.D
Leip Prof

Gray, F. W., M A, D Sc. Lectr

Thomas, Wm, M Sc Wales, B A

Camb, Ph D, A I C Lectr

Reade, T H, M Sc Birm, B A

Camb, A I C Lectr

Evans, W J R, B Sc Wales Asst

Humphries, J E, M Sc Wales,
B A Lond and Camb Asst

Classics

Harrower, J, LL D Glas, M A.
(Greek) Reg Prof

Robertson, Mary W U, M A.
(Lectr in Gk Hist) Asst

Mordaunt, Frances G, M A
(Lectr in Gk Hist, Lit and
Art) Asst

Souter, A, M A, D Litt (Hu-
manity) Reg Prof

Smith, A J, M A, D Litt (Latin)
Lectr. & Asst

Weir, R, M.A. (Rom. Hist)
Lectr & Asst

MacLennan, W G D, M A Asst.

Economics, v Pol Econ

Education

Clarke, J, M A. Belf Lectr

Walker, Norman T, M A Edin
Lectr

Embryology

Low, A, M A, M D Reader.

Engineering

Stewart, F R, B Sc (Eng) Glas. Prof

Asst (Agric. E)

Cruickshank, A, M C I

Asst (Agric E)

English, v also Public Speaking

Jack, A A, M A Glas, LL M.

Camb Reg Prof of E Lit.

Taylor, W D, M A Glas, B A.

Ox & Aberd Lectr.

Abbott, C C, M A. Lond, B A.

Camb Lectr

Jack, P M, M A Asst

Fisheries, Scientific Study of

Fulton, T. A. W., M.D Edin

Lectr

Forestry [Lectr

Leslie, P, M A, B Sc, B Sc. Agr

Fraser, G K, M A, B Sc, B Sc

For Lectr in Soils

Laing, E V, M A, B Sc, B Sc

For Asst

Forest Botany and Entomol.

Watt, A S, B A Camb, M A,

B Sc Agr Lectr.

French

Casati, E, L ès L Lyons

Intm Lectr French and

Lectr Comm F

Harper, Margaret G, M.A Asst

Morfin, J, B ès L Asst

Bain, Margaret A, M A Asst

Geography

McFarlane, J, M A Edin, M Com

Manc, B A Camb Reader

Geology

Gibb, A W, M A, D Sc Prof

Mackinnon, W G, B Sc Asst

German [Reader

Bruford, W H, M A Camb

Jameson, Ruth C, M A (Lectr

in G. Hist) Asst

Dieth, E, Ph D Zur Asst.

Hebrew and Semitic Langs.

Gilroy, J, D D St And, M A

Reg Prof.

History, v also Law, Theol
 Terry, C S, M A, Litt D and
 Hon. Mus D Camb, LL D
 Edin Burnett-Fletcher Prof
 Simpson, W. D., M A Lectr
 Henderson, J M, M A Edin Asst

Law, v. infra

Logic [Reg. Prof
 Davidson, W. L, M A, LL D
 Milne, J. C, M A Asst

Mathematics

Macdonald, H M, O.B E, M A,
 F R S Prof.
 Goodwilhe, J, M A Camb &
 Edin, B Sc Edin
 Leatr & Asst
 Lawrence, J T, M A Asst.

Medicine, v infra

Natural History [Reg Prof
 Thomson, J A, M.A, LL D Edin
 Lectrs
 Rennie, J, D Sc (Agr Zool and
 Parasitology)
 Neill, R. M, M A Glas (Zool)
 Faulkner, Gwendoline H, B Sc
 Edin Lectr (Zool)
 Morrison, Lewis, B Sc (Agr)
 Asst (Agr Zool)

Philology, v Celtic

Philosophy, Moral

Bailhe, J. B, O B E, M A Camb.,
 D Phil Edin Reg. Prof
 De Selincourt, O, B A Ox Asst

Philosophy, Nat

Thomson, G. P, M A Camb Prof
 Fyvie, W. W., D.Sc Lectr.
 Geddes, A. E M., O.B E, M A.,
 D.Sc. Lectr.
 Jack, Jessie M, M A. Asst
 Griffith, H D, B A Camb. Asst

Physiology

[Reg. Prof.
 MacWilliam, J A, M D, F.R.S
 Reid, C., M A, B Sc, M B, Ch B,
 D.P.H Camb
 (Expl P) Lectr
 Fiddes, J., M B Asst

Orr, J B, D S O, M A., D Sc,
 M D Glas
 Research Lectr (P. of Nutrition)

Political Economy

Gray, A., M A Edin Jaffrey Prof
 Macdonald, Annie, M A. (Lectr. in
 Pub. Finance) Asst
 Burnie, A, M A Edin. (Econ Hist)
 Lectr

Psychology, Comparative

McIntyre, J. L, O B E, M.A
 Edin & Ox., D Sc Edin.
 Anderson Lectr.

Public Speaking

[Lectr.
 Mursell, W A (Asst in English)

Spanish

Davidson, C, M A Lectr.

Statistical Methods

Tocher, J F, D Sc Lectr.

Theology

Baird, A C, M A, B D, B Sc
 Glas (Bibl Crit) Reg Prof
 Cowan, H., M A. Edin, D C L
 Durh, D Th. Geneva, D D
 (Church Hist) Reg Prof
 Fulton, W, M A, D D, B Sc
 Glas (Systematic T) Prof
 Mitchell, Prof W, M A, D Sc (of
 Adelaide) Gifford Lectr

*Veterinary Hygiene and Agr
 Bacteriology*

Brown, Wm., M R C V S. Lectr
 Ironside, W J., M R C V S Asst

Zoology, v Nat Hist

Law

Scots L, Roman L., Jurispr.

Stuart, A. M, K C., LL B Edin.,
 M A Prof

Constit. L. and Hist.

Williamson, R M., LL B. Edin,
 M A Lectr

Conveyancing

Morrison, A. C, O B E, M A St
 And, LL B Glas Lectr
 Masson, R. P., M A, LL B Asst.

Internat. L., Public and Private
Duncan, G, M A Lectr

Procedure and Evidence & Merc.
Law for Comm'l Students
Blacklaw, A, M A. Clark Lectr.

Medicine (for subjects of the first
2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Forensic Med.

Hay, M, M D, LL D Edin Prof.
Richards, R, M A, M D,
F R C S E Asst
Williamson, G, M A, M B (Med
Ethics) Lectr

Materna Medica

Marshall, C R, M A Camb, M D
Manc, LL.D. Reg Prof
Hendry, A W, M D Asst
Davidson, Bessie M, M D St
And Asst

Medicine [Reg Prof.

Mackintosh, A W, M A, M D
Anderson, A G, M A, M.D,
M R C P. Lond Asst

Midwifery [Reg Prof

McKerron, R. G, M A, M D.
Semple, R, O B E, M D Asst.

Pathology [Wilson Prof.

Shennan, T, M D., F R C S Edin
Duguid, J B, M B Asst
Davidson, J. F, M B Asst.
Cruickshank, J, M D, D Sc Glas.
Research Lectr. in P.
(Cancer) and Reader
in Bacteriology
Lockhart, Jeannie, M P S
Asst (Cancer Research).

Downie, A W, M B Asst.

Public Health [Reader.

Kinloch, J P, M D Glas.
Berry, D W, M D Asst

Surgery

Marnoch, J, C V O, M A., M B.,
C M Reg. Prof.
Anderson, Wm, M B, F R C S
Asst

Tropical Medicine

Williamson, G A, D T M. Liv.,
M A, M D Lectr

Tuberculosis, Sanatorium Treat-
ment of

Stewart, I S, M D Edin Lectr.

University Extension

Summer course Lectrs (in 1923) 30

GENERAL INFORMATION (v. also p. 238)

The "University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the "Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 Incunabula, some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archaeology. Annual budget about £3500. MUSEUMS. Anthropological (illust. cat 1s), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with departments of Physiology, Bio-Chemistry, Bacteriology and Pathology, and attached Animal Husbandry section for practical experiments in feeding, etc. It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics Infirmary, 230 beds; Children's, 85; Fever, 100; Lunatic Asylum, 700.

DEGREES, ETC. (v. p. 240). For Diploma courses in Agric. (3 yrs) and

Forestry (2 yrs) there is a preliminary examn in English and Maths. The papers in the Final examn in Agric. are the same as those set for the B Sc Agri. The only other Diploma conferred is the D P H. Univs outside the United Kingdom which have been recognized by the Univ Court *pro tanto* as institutions in which 3 of the requisite 5 yrs of medical study may be taken, provided that the prescribed conditions with reference to such study are fulfilled. Bom., Calc., Mad., Adel., Melb., Syd., N Z., S. Africa, Dal., Queen's (Kingston), Tor., McGill, Chic., Corn., J H U., Harv., Stanf., Mich., Penn., Yale. Individual teachers in other Univs may be recognized upon satisfying the Univ. Court with respect to their courses. The following have been recognized in respect of courses and examns in Bot., Zool., Biol., Physics, and Chem. qualifying for a degree in Science or in Arts or in Med. Bom., Calc., Mad., All., Panj., Rangoon, Melb., Syd., Adel., Queen's (Kingston), McGill, Tor., Manit., S Africa. The courses and examn in Anat. and Physiol. for the Science degree of the Univ. of Cape Town have been recognized.

FEES (v also p 241) Inclusive fees for tuition B D., 40 gs., LL B., 40 gs. (28 gs. for a M A. of the Univ.), B L., 30 gs., M A. and B Sc taken together, 112½ gs., M A. and B Com., 75 gs., B Sc. and B Com., 112½ gs., M B., Ch B., 126 gs.; M A., M B., Ch B., 156 gs., B Sc., M B., and Ch B., 168 gs., M A., B Sc., M B., and Ch B., 202 gs., M A. (Hons.), 60 gs., B Com., 45 gs., B Sc. (Ord.), 90 gs., B Sc. (Hons.), 100 gs., M A. (Hons.) and B Sc., 127½ gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £236. The degree fees for the Doctorates are from 10 to 20 gs. The fee for the D P H. is 8 gs.

SCHOLARSHIPS, ETC. for graduates (v also p. 242) about 25, aggregate annual value about £1600.

RESIDENCE. No Univ. Hostel. List of lodgings kept by Students' Repve. Council.

PUBLICATIONS *Calendar* (Sept.), 4s. 6d.; *Univ. Review*, 7s. 6d. p.a. (3 issues); *Students' Handbook* (Nov.), 1s., *Univ. Libr. Bulletin*, 2s. 6d. p.a. (2 issues).

THE YEAR 1922-23

BENEFACCTIONS The late Wm. Macdonald, foundation of Science Bursaries, £1400. Late Miss Fife-Grant, further towards foundation of Medical Bursaries, £400. Late Rev. Dr. Alex. Miller, £152. Late Dr. Alex. Kilgour, further towards endowment of Chair in Geol. and Scholarships in Nat. Sc. and Nat. Hist., £7500. Late Dr. Wm. Dey, Library, £10,251. 13. 11. Walter A. Reid, C.A., foundation of Library at Rowett Research Inst., £5800. Late Prof. Wm. Martin, towards Prize in Christian Evidences, £40.

NEW POSTS Foundation of Jackson Chair of Engineering and lectureship in Astronomy.

HONORARY DEGREES D D.—A. Fyfe Findlay, Duff MacDonald, A. Cameron Robertson, J. Taylor Dean, Rt. Rev. Alex. Wood. LL D.—Duke of Richmond and Gordon, Sir Wm. H. Beveridge, J. Fraser, E. W. Hobson, Wm. Mackie, Sir G. H. Makins, Sir J. Ontario Miller, C. Niven, Douglas Strachan.

UNIVERSITY EXTENSION WORK Lectures on Art, 108, Tutorial Classes in Economics, 41, Engl. Lit., 22, Appreciation of Music, 48. Summer School.

STATISTICS V. Appendix XXIX

UNIVERSITY OF EDINBURGH

CHANCELLOR—Rt Hon THE EARL OF BALFOUR, K G , O.M , D C L

VICE-CHANCELLOR AND PRINCIPAL—Sir J ALFRED EWING, K C B ,
M A , D Sc , LL D , F R S

RECTOR—Rt Hon STANLEY BALDWIN, M P

SECRETARY TO THE UNIVERSITY—Prof WILLIAM WILSON, M A , LL B ,
Advocate

UNIVERSITY COURT

PRESIDENT—THE RECTOR, *ex officio* SIR NORMAN WALKER, M D

THE PRINCIPAL, *ex officio* J B CLARK, M A

The Rt Hon THE LORD PROVOST
OF EDINBURGH, *ex officio* Prof T P LAIRD, M A , C A

The Hon LORD BLACKBURN Prof T HUDSON BEARE, B A ,
The Hon LORD CONSTABLE B Sc , M.I C E

Judge F J ROBERTSON Prof Sir RICHARD LODGE, M A ,
R M'KENZIE JOHNSTON, M D LL D

J ROBERTON CHRISTIE, O B E , Prof Sir HAROLD J STILES,
K C K B E , M B , C M

PROFESSORS, LECTURERS, ETC, January 1, 1924

<i>Accounting and Business Method</i>		Stump, C W , M B	Lectr
Laird, T P , M A , C A	Prof	Jardine, F E , M B (A and Ap- plied A)	Lectr
Johnston, C M'K , C A	Asst		

<i>Actuarial Science</i> [Lectr		<i>Anatomy, Comparative</i>	
Hutton, G C , M A , F I A		Bradley, O C , M D , D Sc	Lectr
Gunn, G O , F F A	Lectr	Grahame, Tom, M R C V S	Asst

<i>Agriculture and Rural Economy,</i> v also Bot and Forestry		<i>Anatomy, Morbid</i>	
Watson, J A S , B Sc	Prof	Alexander, W A , M B	Lectr

More, J A , B Sc		<i>Anthropology and Prehistoric Archæol</i>	
		Munro Lectr	

<i>Agric and Forest Entomol.</i>		<i>Arabic</i>	
MacDougall, R. S , M.A , D Sc		Bell, Richard, M A , B D	Lectr
	Reader		

<i>Anatomy</i>		<i>Art (Fine Art)</i>	
Robinson, A , M D	Prof	Brown, G Baldwin, M.A Ox	Prof.
Jamieson, E B , M D	Lectr.		

Astronomy

Sampson, R A , M A Camb , D Sc ,
F R S. Reg. Prof.

Banking

McNeil, A., S S C. Bruce Lectr

Biology, v Nat Hist*Botany*, v also Forestry

Smith, Wm Wright, M A , F R S
Reg Prof

Smith, J. L S , M A , B Sc
(Forest B) Lectr

Watt, Sir G , C I E , M B , C M ,
LL D Aberd & Glas , F L S

(Indian Forest Trees) Lectr
Matthews, J R , M A , B Sc

Lectr
Wilson, M., D Sc (Mycol and
Bacteriol) Reader

Graham, R J D., D Sc (Plant
Physiol) Lectr

..... Asst

Celtic Languages, etc. [Prof

Watson, W. J , M A Ox , LL D

Chemistry

Walker, Sir J , D Sc , F R S Prof
Dobbin, L., Ph D Lectr

Kay, S. A , D Sc Lectr

Rule, H G , Ph.D., D Sc Lectr

Shoesmith, John B , M Sc Lectr

Ross, J D. M , M A , B Sc Lectr

Bolam, T , M Sc Lectr

Ludlam, E B , B A , D Sc Lectr

Mitchell, R K S , B Sc Asst

Mackenzie, Mary R , B Sc Asst

Numbers, Annie H , M A , B Sc

Asst

Smith, A M , B Sc Asst.

Smith, John, B Sc Asst.

Fairweather, D A , M A , B Sc

Asst

Hoskings, A A , B Sc Asst

Coutie, A , B Sc Asst

Chemistry in relation to Medicine

Barger, G , M A Camb , D Sc ,
F R S. Prof

Mackenzie, J. E , D Sc , Ph D

Lectr

Stewart, C. P , M Sc Durh. Asst

Stedman, E , B Sc , Ph D Lectr
Stedman, Ellen, M Sc Asst

Chemistry, Technical

Cottrell, Allin, M Sc Lectr

Classics

Mair, A W , M A Camb , Litt D
Aberd (Greek) Prof

Fitzherbert, J A , B A Camb
(Greek) Lectr

Forbes, P B R , B A Camb
(Greek) Asst

Richmond, O L , M A Camb
(Humanity) Prof

Mill, J , M A (Latin) Lectr

Mountford, J F , D Litt Birm
(Latin) Lectr

Nicolson, Catherine A , M A
(Latin) Lectr

Steuart, E M , D Litt (Latin)
Lectr

Commerce, and Organization of

Industry [Lectr

Oliver, W., B Sc., A M I C E.

(v also Acc , Banking)

Commercial and Polit Econ and

Merc. Law, v also Law

Nicholson, J. S , M A Lond , Sc D
Camb Prof

Rees, J F , M A Ox (Econ Hist)
Lectr

Rankin, Mary T , M A , D Phil
Lectr

Joynt, Thomas A , M A Lectr

Fenelon, K G , M A Lectr.

Carse, G. A , M A , D Sc (Stat-
istics and Math Econ) Lectr

Divinity

Paterson, W P , LL D Penn ,
M A , B D , D D Prof

Campbell, Colin, D D
Gunning Lectr 1923-24.

Curtis, W A , M A , B D , D Litt ,
D D

Reg Prof. of Biblical
Criticism & Bib Antiq

..... Asst

Mackinnon, J , M A , Ph.D , D.D.

Reg Prof of Eccl. Hist

Frazer, Sir James G., F R S ,
D.C L , LL D , Litt D

Gifford Lectr on Natural
Theol

Martin, P'pal Alex , D D Lectr
Kennedy, Prof H A A , D Sc ,
D D. Lectr

Simpson, Prof J Y , D Sc Lectr
Mackintosh, Prof H R , D Phil ,
D D Lectr

Watt, Prof H , B D Lectr
Welch, Prof A C , D D , Th D
Lectr

Perry, P'pal W , D D Lectr
Hughes, P'pal G H , B D , D Litt
Lectr

Morrison, J , D D Asst

Economics, v Comm

Education

Daroch, Alex , M.A. Prof.
M'Clelland, W W , M A , B Sc ,
B Ed Lectr

Bickersteth, Marguerite E , Ph D
Asst

Young, Margaret, M A Asst.

Engineering

Beare, T Hudson, B A , B Sc
Adel, M I C E Reg Prof
Kerr, W Hume, M A , B Sc

(Drawing, etc) Lectr
Todd, J B , B Sc , A M I Mech E
(Surv & Hydraulics) Lectr.

Gordon, W , B Sc , A M I Mech E
(Strength of Mats) Lectr

Broadwood, R G , B Sc (Forest
Engin) Lectr

Stewart, David S , A M I C E ,
Patterson, C , A M I Mar E Lectr

Wilson, J R , B Sc. (E & Maths)
Asst

English Lit and Rhetoric

Grierson, H J C , M A Aberd ,
B A Ox , LL D St And

Reg Prof
Kitchin, G , M.A., D Litt Lectr.

Dickins, Bruce, M A Lectr.

Hislop, Gordon, M A Lectr.

Entomology, v Agric.

*Forestry, v. also Agric., Bot ,
Engin*

Stebbing, E P , M A Prof
Pike, J L , M A , B Sc Lectr

Fergusson, D. C , B Sc Lectr
... (Forest Zool) Lectr

French and Rom Philol

Sarolea, C , Ph D , D Litt Liège,
D Jur Cleve Prof

Moore, J M , M A Lectr
Burns, Mary, M.A., D. de l'U
Paris Lectr

Genetics, v Nat Hist

Geography

Ogilvie, Alan G , M A , B Sc Ox
Reader

Lennie, Alice B , M A , B Sc
Lectr. and Asst.

Geology

Jehu, T J , M A , M D Reg Prof
Campbell, R , M.A., D.Sc. (Petro-
logy) Reader

Finlay, T M , M.A , B Sc
(Palæont) Lectr

Craig, Robert, M A , B Sc (Econ
Geol)

Allan, Douglas A , B Sc Asst

German and Teutonic Philol

Prof
Schlapp, O , Ph D. Reader.

Eggeling, H. F , M A. Lectr
Howie, Margaret D , M A , Ph D

Lectr
Barker, Marie L , M A. Asst

Hebrew and Semitic Langs

Kennedy, A R S , D D Glas and
St And Prof

Cameron, D , B D Asst

Histology, v Physiol.

History, v also Comm , Div , Mil

Lodge, Sir Richard, M A Ox ,
LL D. Glas Prof

Heatley, D. P , M A (Political
Science) Reader.

Balfour-Melville, E. W M , M A
Lectr

Horn, D B , M A Asst.

History, Ancient (Gk & Roman)

Giles, A F, M A Edin and Ox
Lectr

History, Ancient, and Palæog

Hannay, R K, M A Glas, LL D
St And and Ox Prof

Lemon, Miss E, M A Asst

History, Colonial and Indian

Ewing, J, M A. Lectr

History, Const Law and Const

Mullar, J H, M A Ox, LL B
Prof

Italian

Purves, J, M A Lectr

*Law, v infra**Logic, v Philos**Mathematics, v also Engin*

Whittaker, E T, M A Camb,
Sc D, F R S Prof

Horsburgh, E M, M A, D Sc,
A M I C E Reader

Gibb, D, M A, B Sc Lectr

Baker, B B, M A, D Sc Lectr

Robinson, G, M A, B Sc Lectr

Copson, E T, B A Asst

*Medicine and Surgery, v infra**Military History, Strategy, etc*

Taylor, Major J. O, LL B Lectr

Mining

Hood Prof
Briggs, Prof H (Heriot-Watt Coll) [Lectr

Music

Tovey, D F, B A, D Mus Ox,
Mus M Reid Prof

Shirlaw, M, Mus D Lectr

Dunn, J P, Mus B Lectr

Natural History

Ewart, J. C, M D, F R S Prof
Ashworth, J H, D Sc, F R S

Prof (Zool)

Patton, Major W. S, I M S Lectr

Stephenson, J, C I E, M B, D Sc Lectr

Purser, G L, M A Lectr.

Hogben, L, M A, D Sc Lectr

Crew, F A. E, M D, D Sc
(Genetics) Lectr

Lamont, Augusta, B Sc

Asst (Zool)

McGill, Elsie, B Sc Asst (Zool)

*Philology, v French, Ger, Sansk.**Philosophy*

Smith, N. Kemp, M A, D Phil

St And, LL D

Prof of Logic and Meta-
physics

Hardie, R P, M A (Ancient P)
Reader

Anderson, J, M A Lectr

Davidson, A N, M A Asst

Gray, Marion I, M A Asst

Philosophy, Moral, v also Psych

Seth, J, M A, LL D Prof

Barker, H, M A Lectr

Macaulay, G J R, M A Asst

Philosophy, Natural [Prof

Barkla, C G, M A Camb, D Sc

Liv, F R S, Nobel Laureate

Darwin, C G, M A Camb, F R S

Tait Prof

Carse, G A, M A, D Sc Reader

Robinson, H, D Sc Manc

Reader

Milne, J R, D Sc Lectr

Dunbar, R T, M A, D Sc Lectr

Jack, D, M A, B Sc Nichol Asst

Childs, B, D Phil Asst

Watson, W H, M A Asst

Cranfield, R V Asst (Mechanics)

Physiology

Schafer, Sir E A Sharpey, LL D,
F R S Prof

Taylor, W. W, M A, D Sc (Chem
P) Lectr

Hogben, L, D Sc (Expl P)
Lectr

Walker, May L, M A, B Sc, M B
(Histol) Lectr

Bruce, A N, M D, D Sc (P of
Nervous System) Lectr

Ponder, E, M B Lectr.

Dryerre, H, M R C S Lectr

Macdonald, A D, B Sc, M B
Asst

Charlton, Dorothy D. Asst

Pol. Econ , Sc , v Comm , Hist.

Psychology

Drever, J, M A , B Sc Lond ,
D Phil Reader

Collins, Mary, M A , B Ed , Ph D
Lectr

Slight, D, M B Asst

Public Health

Stewart, C Hunter, M B , C M ,
D Sc Prof

Young, J B, M B, D Sc Lectr

Hood, Helen R T, M.B, D P.H
Lectr

Rhetoric, v English

Russian [Lectr

Brennan, H G, M A, L ès L

Sanskrit and Comp Philol

Keith, A Berriedale, M A, D Litt ,
D C L Reg Prof

Semitic Langs , v Hebrew

Spanish

Walton, L B, B A Lond Lectr

Statistics, v Comm

Theology, v Divinity

Zoology, v Nat Hist

Law

Administrative

Wood, P F, M A, LL B, M A
Ox Lectr

Civil

Mackintosh, J, K C, M A St
And, B A Ox, LL D Prof

Mackintosh, C., B A, LL B Asst

Constitutional, v Hist

Conveyancing

Wedderburn, E M, LL B, D Sc,
W S Prof

Smith, R Colley, B A, LL B
Asst

English Law

Chisholm, J, K C, LL B Lectr

Evidence and Procedure

Lewis, W J, M A Ox, B L, S S C
Reader

*Industrial and Merc , v. also
Comm*

Aitken, H, K C Reader

Lillie, J A, M A, LL B Asst

International, Private

Dykes, D O, M A, LL.B Lectr

Jurisprudence

Garrett, W, B A., LL B Lectr

Landlord and Tenant

Cowan, John, K C Lectr

Public

Wilson, Wm, M A, LL B
Reg Prof

Scots [Prof

Henderson, R C, K C, LL B

Stevenson, W H, M A, LL B
Asst

Medicine (for subjects of the first
2 yrs —Anat, etc, v. *supra*)

Anæsthetics

Ross, J Stuart, M B Demr

Bacteriology, v Path

Children, Diseases of

Fowler, J S, M D Senr Lectr

Fraser, J, M D Lectr

M'Neil, C, M D Lectr

Carmichael, N S, M B Lectr

Thatcher, L, M D Asst

Murray, J M'N, M B Asst

Hertzfeld, Gertrude, M B Asst

Finlay, T Y, M D Asst

Dermatology, Clinical

Walker, Sir N, M D Sen Lectr

Gardiner, F, M D Lectr

Low, R C, M B Lectr

Aitken, R, M D Asst

Eye, Diseases of the

Paterson, J V, M B Lectr

Sinclair, A H H, M D Lectr.

Traquair, H M, M D Lectr

Cameron, E H, M B Lectr

Ligertwood, Laura M, M B Asst

Graham, C W, M B Asst

Forensic Med. [Reg Prof

Littlejohn, H, M A, M B, B.Sc

Kerr, Douglas, M B Asst

* Lectr. in Clin. Med.

Surgery, Clinical [Reg Prof
 Stiles, Sir Harold J, M.B., C M
 The Prof of Surg Senr Lectr
 Miles, A, M D. Senr Lectr
 Dowden, J W, M B Senr Lectr.
 Skirving, A A S, C.M.G, M B
 Senr Lectr
 Chiene, G L, M B Senr Lectr
 Stuart, W J, M B Senr Lectr
 Struthers, J W, M B Lectr
 Wade, H, M D Lectr
 Fraser, J, M D, Ch M Lectr
 Hartley, J N J, M B Lectr
 Graham, J M, M B, Ch M Lectr
 Watson, A Pine, M B, Ch M
 (Asst in Surg) Lectr
 Jardine, F E, M B Lectr
 Wood, W Q, M D, Ch M Lectr
 Wilkie, D P D, O B E, M D,
 Ch M Lectr
 Cochrane, W A, M B Asst

Surg Pathology
 Graham, J M, M B, Ch M Lectr

Therapeutics
 Meakins, J C, M D Prof
 Davies, H W, M B, B.Sc Asst
 Robson, W, B Sc Asst

Tropical Climates Diseases
 Marshall, Lt -Col D G, M B,
 I M S Lectr.

Tuberculosis
 Philip, Sir R W, M A, M D Prof
 Hewat, A. F, M B Asst.*
 Simpson, J C, M B Asst

Venereal Diseases
 Lees, David, M D Lectr.
 Batchelor, R C L, M B Asst
 Liston, Mary F, M B Asst

University Extension

22 Tutors, including 5 Univ Profs
 and 11 Univ Lectrs

* Lectr in Clin. Med

ASSOCIATED COLLEGES, in which Univ. courses are provided
 at Edinburgh.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE Director,
 Alex Lauder, D Sc

HERIOT-WATT COLLEGE Principal, A P Laurie, D Sc

NEW (UNITED FREE CHURCH) COLLEGE Principal, Alex Martin, D D.

ROYAL (DICK) VETERINARY COLLEGE Principal, O. C. Bradley, M.D, D Sc

GENERAL INFORMATION (v. also p. 238)

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582 The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838 New buildings include the M'Ewan Hall (1888-97), in theatre form, which holds 2600 people and has a great electric organ. The Medical School of this Univ has been famous for many generations, specially ample provision exists also for instruction and research in Theology (post-graduate school instituted 1919), Agric, Forestry, Engin, and Vet Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, 300,000 vols, 8000 MSS, includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS, Economics

(Hodgson), Math tables by E. Sang, transactions of Engin. Societies in Great Britain and America **MUSEUMS**: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool (Waterhouse collection of Coleoptera), Anat (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat Med (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the Royal Bot. Garden. The Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The **LABORATORIES** are especially well equipped for research in Anat., Anthropol., Bact., Chem. (a section of the new Laboratories at King's Buildings is now in use; when completed there will be accommodation for about 400 students), Engin. (notably Hydraulics, Strength of Materials, Elec Engin.), Mat Med., Path., Physics, Physiol., Psych., Pub Health (Institute built 1902, costing £21,000). The Univ has a table at the Millport Marine Station. **HOSPITALS** the Royal Infirmary adjoining the Univ provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., and Lunatic Asylums. Over 50 resident posts in these are given annually to Med graduates.

DEGREES AND DIPLOMAS (v Scottish Univs) A diploma in *Education* is granted on completion of Univ courses (1 yr) and passing exams in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs' experience as a teacher, and must have completed a graduation course in Arts. Diplomas are also granted in *Actuarial Mathematics* (2 yrs), *Forestry* (2 yrs), *Geography* (open to graduates or students about to graduate in Arts or Science), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), and a Diploma and a Certif. in *Social Study*.

A candidate for the B Sc in *Vet Sc* must (i) have passed the Prelim examn. for degrees in Sc., (ii) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet Coll., Edin., provides certain of the qualifying courses.

The 1st examn. for the B Sc in *Pub Health* is open to graduates in Med. of Univs. of the U K., or McG., Queen's (Ont.), Panj., Harv., Bruss., or Wurz., on conditions which include study during 5 mos. in the Edin. Pub Health Lab. The 2nd examn. may not be taken until 6 mos. after passing the 1st.

Diplomas in *Pub Health* (1 yr course), in *Tropical Med and Hygiene* (16 mos.), and in *Psychiatry* (1 yr), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus B* must have passed the Arts or Sc. Prelim examn., or its equivalent, and attended a course in this Univ. during a whole winter session. A Mus. B. of 3 yrs.' standing may offer himself for the Mus. D. (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

RECOGNITION OF INSTITUTIONS AND TEACHERS outside the United Kingdom

(a) For exemption from one (not the final) year of the course for M. A. or for B. Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree the following Univs.—Alb., Dal., McG., Manit., Queen's (Kingston), Tor., Adel., Melb., Syd., N. Z., S. Africa, All., Bom., Calc., Mad., Panj., Paris, Tokyo, Osaka, Sendai, and such other Univs. as the Univ. Court may from time to time approve, graduates of the American institutions listed in Appendix XXV.

(b) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe

(c) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad. V. also (f).

(d) For 2 of the 3 yrs' study for LL B McGill Univ., Madras Law Sch., Law Coll., Trevandrum, Ripon Coll., Calc

(e) For 3 of the 5 yrs of Med study recognized teachers in Singapore (in Physiol and Practice of Med) and Wellington, S Africa (in Chem)

(f) For admission of graduates from these institns. to study for the Ph D degree (General Recognition is also granted to them in terms of the various Graduation Ordinances) the following Univs.—Dal., King's Coll (N.S.), Laval, McG., Manit., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W Aust., N Z., Cape Town, S Africa, all Colleges affiliated to these Univs., Univs and Colls approved by the Assocn of American Univs V App XXV.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P-G. Courses in Med Univ New Buildings, Edinburgh The Post-graduate School of Theology has issued a detailed list of courses for 1923-24 Graduates contemplating research should apply to the Deans V also p 242

SCHOLARSHIPS Total annual value over £22,000; for graduates only, £6000 Most are open to colonial and foreign students. The Earl of Moray's Endowment provides over £1000 p a for *research* V also p 242

FEES (*N B*—See also p 241) Inclusive tuition fees for LL B, 42 gs, B L, 30 gs, B Sc Engin or Forestry, 90 gs, Agr, Ord, 90 gs, Hons, 120 gs, Mining, 105 gs, Technical Chemistry, 120 gs, Pure Sc, 100 gs, B D, 33 gs, M B, Ch B, including Hospl Fees, 177 gs Combined M A and B Sc in Pure Sc, 130 gs, M A and B Sc in Agr, Engin, or For, 115 gs, M A and B Com or I.L.B, 70 gs, M A and B L, 65 gs, B Sc in Agr and in For, 135 gs Graduation examns M A, 7½ gs, B D, 7½ gs, LL B, 9 gs, B L, 7½ gs, Mus B, 15 gs, Mus D, 15 gs, Ph D, 10 gs, B Sc, 9 gs, D Sc, 15 gs, M B, 33 gs, M D, 20 gs, Ch M, 20 gs

HALLS OF RESIDENCE, ETC. For men University Hall on a self-governing basis (information from Messrs Whitson and Methuen, 21 Rutland Street). Board and lodging about £3 a week. For women East Suffolk Rd., Craigmillar Park (Warden), Masson Hall, 31 and 32 George Square (Warden); and Muir Hall, 12 George Square (Warden), about £20 a term Six months' notice generally necessary.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France It has local centres at Glas., Aberd., and Dundee

Indian Students' Adviser: Maj J. E. Mackenzie, D Sc.

UNIV EXTENSION, ETC The Univ is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin Educational Authority, in co-operation with the Workers' Educnl Assocn. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff.

OFFICIAL PUBLICATIONS. The *Calendar* (Aug.), 6s.; the *Prelim and Degree Examn. Pps.* (May and July), 5d. to 1s. 9d. a set (James Thin, 55 South

Bridge). The *Students' Handbook* issued by the Students' Representative Council Facilities for advanced Study and Research free on application.

THE YEAR 1922-23

BENEFACTIONS An anonymous gift of £20,000 as nucleus of fund for new dept of Zoology, James A Hood of the Lothian Coal Co., Ltd, £15,000 towards endowment of Chair of Mining, in connection with which the Governors of George Heriot's Trust have agreed to contribute £450 p a towards the Prof's stipend, and to spend not less than £700 p a. on maintenance of laboratories and on junior teaching staff, in addition to providing accommodation for the Prof in the Heriot-Watt College, C. Michie Smith bequest, David Dundas Memorial Fund for promoting Latin studies, Sir J Affleck bequest, £1000, half for Library and half for founding "MacLagan Prize" in Forensic Med

NEW BUILDINGS First of King's Buildings on Liberton site was completed at cost of £200,000, and will be opened early in summer of 1924 by Prince of Wales Dept of Geology was removed to temporary building on Liberton site

NEW ORDINANCES, ETC. New regulations for degrees in Science in *Agric*, institution of degrees in Science in *Technical Chem*, admission of readers and senior lecturers as members of Senatus, institution of Hood Chair of *Mining*, provision for *superannuation and pensioning* of principals and professors, provision for recognition, for *exemption from first and second professional exams in Med*, of exams in other Univs

OTHER DEVELOPMENTS (see also under "Benefactions") Agreement with City Corporation for provision of teaching facilities in Dept of *Tuberculosis* at Royal Victoria Hospl, Dispensary, and Farm Colony, representative panel formed by Edinburgh Chamber of Commerce and Manufacturers to advise graduates of the Univ in Commerce with regard to *positions in commerce and industry*, first appointment made to new Taft chair of *Nat Philos*—C G. Darwin, formerly lecturer in Christ's Coll, Cambridge

UNIV. EXTENSION WORK. In addition to providing accommodation for courses of lectures delivered under auspices of W E A, the Univ Court voted a grant-in-aid Students enrolled in connection with these classes numbered nearly 2000 Summer vacation classes for teachers, 4 weeks

DEATHS Prof J Ritchie (Bacteriology), succeeded by T J Mackie from the Univ of Cape Town, Dr J W Ballantyne, Dr H Rainy. **RESIGNATIONS** H Stanley Allen, on election to chair of *Nat Philos* in St And., G G. Chisholm, Lectr in Geog, D. Kennedy Fraser, Lectr in Educn, on apptmt as Psychologist under Nat. Committee for Training of Teachers, R. K S Lim, Lectr in Expl Physiol., on apptmt as Prof. in Amoy Univ.; G W M Findlay, Lectr in Path, H B Murdoch, Lectr. in Law, Prof. Alexis Thomson (Surgery).

WAR MEMORIAL The Chancellor unveiled on Feb 19, 1923, in the Quadrangle of the Old College, a memorial to the Alumni of the Univ. who fell in the Great War, numbering nearly 1000

INTERCHANGE, ETC Lectures were delivered in the Univ by Profs. de Sitter of Leyden, Lorentz of Haarlem, Kruyt of Utrecht, Grafton Elliot Smith of London, W. W. Atwood, President of Clark Univ, and by Dr Nicholas Murray Butler, President of Columbia Univ, by Prof. R. A. S. Macalister

of Univ. College, Dublin, as Munro Lectr. in Anthropology, and by Prof. J. J. Rickard Macleod of the Univ of Toronto, as Cameron Prizeman

Prof N Kemp Smith was granted leave of absence for the spring and summer terms, in order to lecture in Philosophy under the Mills Foundation in the Univ of California, Prof H J C Grierson (English) was granted leave of absence for the Summer term, in order to attend a Conference and deliver some lectures in Columbia Univ, New York

On the invitation of the Faculty of Medicine, the Dean and several members of the Med. Faculty of the Univ of Paris visited Edinburgh in June, and were entertained by the Med Professors for several days

From the 23rd to the 27th of July the 11th Internat Physiological Congress met in Edinburgh, and was granted the use of the Univ. rooms for their meetings

HONORARY DEGREES *DD*—A N. Bogle, R Dey, J Gavin Dickson, G Wauchope Stewart, T C. Williams. *LLD*—Prof H. F Baker of Cambridge, Lt-Col Sir Charles H. Bedford, Rt Hon. Winston Spencer Churchill, Prof. Emeritus Sir Ludovic J Grant, H Head, Lord Hunter, Very Rev. W R. Inge, Prof Emeritus J L Mounsey, Rt Hon Viscount Novar, Sir Charles A Parsons, Mrs Henry Sidgwick, Paget Toynbee, Prof Emeritus R Wallace; also the following members of the 11th Internat Physiological Congress Profs F Bottazzi of Naples, W Einthoven of Leiden, W H Howell of Johns Hopkins, J E Johansson of Stockholm, A Kossel of Heidelberg, H H. Meyer of Vienna, I P Pavlov of Petrograd, C. Richet of Paris.

OTHER DEGREES *MA*, 327 (including women—163), *M.B.*, 296 (w.—71), *MD*, 27, *B Sc* in Pure Sc, 73 (w —20), *Eng*, 55 (w —1), *Mining and Met*, 2, *Agr*, 44 (w —1), *For*, 19, *Vet Sc*, 9, *D Sc*, 4, *LL.B. or B L.*, 27 (w —2), *BD*, 4, *Mus B*, 4 (w.—1), *B Ed*, 7 (w —2), *B Com*, 35 (w.—4); *D.Litt*, 3 (w.—1), *Ph D* in Div., 3, *Arts*, 8 (w —2), *Sc*, 6 (w.—1).

STUDENTS. Total, full-time, 3850, part-time, 447. Matriculated: *Arts*, 1639, *Sc*, 827, *Div.*, 81, *Law*, 189, *Med.*, 1616, *Music*, 18.

UNIVERSITY OF GLASGOW

CHANCELLOR—THE EARL OF ROSEBERY AND MIDLOTHIAN, K G., K.T.

VICE-CHANCELLOR AND PRINCIPAL—SIR DONALD MACALISTER, Bt.,
M A , M D , D C L , L L D , D Sc

RECTOR—The Right Hon EARL OF BIRKENHEAD, M A , F.R.S.

DEAN OF FACULTIES—Emeritus Prof Sir H C CAMERON, C B E , M D ,
L L D.

SECRETARY TO THE UNIV COURT—A. E. CLAPPERTON, B L , L L D.

CLERK OF SENATE—Right Rev Prof G MILLIGAN, D D , D C L

REGISTRAR—ROBT BROUGH.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS —.....

CLERK OF THE GENERAL COUNCIL—SIR A CRAIG, L L B , O I P

QUEEN MARGARET COLLEGE

Mistress—Miss F. H MELVILLE, M A., B D

UNIVERSITY COURT

THE RECTOR, *ex officio*.

THE PRINCIPAL, *ex officio*

THE LORD PROVOST OF GLASGOW,
ex officio

SIR JOHN U PRIMROSE, Bt , L L D

SIR THOS DUNLOP, Bt , G B E ,
L L D

J BRUCE MURRAY, L L D

DAVID MURRAY, L L D

G S MIDDLETON, M D , L L D.

R A DUFF, M A , D Phil

D MACGILLIVRAY, M A

Right Rev Prof MILLIGAN, D D ,
D C L

Prof G A GIBSON, M.A , L L D

Prof T H. BRYCE, M A , M D ,
F.R.S.

Prof GLOAG, K C , L L D

PROFESSORS, LECTURERS, ETC., January 1, 1924

Anatomy

Bryce, T H , M A , M D Edin ,
F.R.S Reg Prof

Hutton, W. K., M.A., M B., C.M.
Lectr *

Maclaren, Norman, Ph D. (Em-
bryology) Lectr.

Blair, D M , M B (Regional A)
Lectr.

Anderson, Andrew, M B Demr.

Payne, W J , M B Demr.

Davidson, A M , M B , D P H
Demr.

Proudlove, Mary E., M B Demr.*

* At Queen Margaret Coll.

Jacobs, Arthur, L R C S Demr.*
 Fleming, J. P., M B Demr
 Nicol, T, M B Demr
 Anderson, A, M B Demr

Arabic

Weir, T H, B D, M.R A.S. Lectr.

Astronomy

Becker, L, Ph D Bonn Reg Prof
 Connell, J Lectr
 Ross, John J, M.A Demr

Botany

Bower, F. O, Sc D Camb., D Sc
 Syd, LL D Aberd, F.R S
 Reg Prof

Williams, Samuel, M Sc.
 Lectr (Plant Morphology).
 Thomson, J, M A, B Sc Lectr
 Wardlaw, C W, B Sc Asst
 Thomson, Jane N, B Sc Asst

Celtic

Calder, G, B D., D Litt. Edin
 Lectr

Chem, v. also *Physiol*

Henderson, G. G., D Sc, F R S.,
 LL D St And., F I C.

Reg Prof
 Bolam, H W, B Sc Edin, Ph D
 Lectr *

Knox, J, D Sc Aberd
 Lectr for Med Students
 Roberts, J, F C S Lectr
 Henderson, A, M A, B Sc Lectr
 Morrison, Jane, M A Asst *
 M'Culloch, W P, B Sc Asst
 Sword, J, M A, B Sc Asst
 Lewin, Christina T, B Sc Asst
 M'Laren, Isabella, B Sc Asst
 Robertson, J McG, B Sc Asst
 Chisholm, D, B Sc Asst.
 4 Research Assts

Chem., Organic

Patterson, T S, D Sc. Lond. &
 Glas., Ph D. Heid.

Gardiner Prof
 M'Millan, A, M A, D.Sc (Analyti-
 cal) Lectr.
 Tucker, S H., B A, M Sc. Lectr.

Coleman, Eva S. E., B.Sc. Asst.
 Semple, Jean M, B Sc. Asst.
 Dunn, Edith F M, B Sc Asst.
 Buchanan, C, B Sc Asst.
 Kent, Andrew Asst.

Chem., Physical

Wright, Robert, M A, D.Sc Belf.
 Lectr.
 Mitchell, Stotherd T R S, B Sc.
 Asst

Civics

Fisher, H A L, M A Ox, LL D,
 F R S, M P
 Stevenson Lectr for 1923

Classics

[Prof
 Davies, G A, M A Camb. (Greek)
 Renme, W, M A (Greek and
 Hellenistic G) Lectr
 Gomme, A W, B A (Greek
 History) Lectr.
 Kitto, H D F, B A (Greek) Asst
 Phillimore, J S, M A Ox, LL D
 St And, D Litt (Humanity)
 Prof
 Burn, R, B A. (Humanity) Asst.
 Austin, R G, B A (Humanity)
 Asst
 Nisbet, R. G, M A (Latin) Lectr.
 M'Glynn, P., M.A (Latin) Lectr

Divinity, v. also *Hebrew*

Reid, H M B, D D St And Prof.
 Milligan, Rt Rev G, D D Aberd,
 D C L Durh (Bibl Crit)
 Reg Prof
 Main, A, M.A. Glas, B A. Ox.,
 D.Litt., D.D. (Church Hist.)
 Reg. Prof.

Economics, v. *Pol & Social Econ.*

Education [Lectr.
 Boyd, W, M.A., B Sc, D.Phil.

Embryology, v. *Anat.*

Engineering, v. also *Naval*
 Goudie, W J, D Sc.
 J Watt Prof of Theory
 and Practice of Heat
 Engines.

Brown, R M , B Sc	Lectr.	<i>Geology</i>	[Prof.
Scobie, J , B Sc	Lectr	Gregory, J W , D Sc Lond , F R S	
Vost, J., B Sc	Lectr	Tyrrell, G W , Ph D , A R C Sc	
Morrison, J C , B Sc.	Lectr		Lectr.
Small, J., B Sc	Lectr	Neilson, Agnes T	Lectr
Tullis, J., B Sc	Lectr	Weir, J , M A.	Lectr
Thom, A , B Sc	Lectr	M'Callien, Wm J , B Sc	
Geyer, E. W., B Sc.	Asst.	Baxter Demr	
Wilson, J., B.Sc	Asst	M'Naughton, E J	Demr
Small, A. J , B Sc	Asst	Barrett, B H	Demr

Engin., Civil and Mech

Cormack, J D., C M G , C B E ,	
D Sc , M I C E , M I Mech E	
Reg Prof	
Keown, J E., B Sc (Drawing and	
Design)	Lectr
Hewett, A F , B Sc	Young Asst

Engineering, Electrical

Howe, G W O , D Sc Durh and	
Adel, M I E E J Watt Prof	
Hague, B , M Sc	Lectr

English Language and Literature

Dixon, W M , Litt D Dub , LL D	
Aber.	Reg Prof
Bickersteth, G L , M A	Lectr
Alexander, P., M A	Lectr
Girvan, R , M A (Eng Lang)	
	Lectr
Smart, J S , M A , D Litt	Lectr
Gray, Margaret M , M A	Lectr
Wright, Bernard	Lectr

French

Martin, C A , M A Paris, O I P ,	
Ch L H , C G	Prof
Pitoy, L M , B Sc , L ès L	Phil
	Lectr
Pitoy, Mary C , M A	Lectr.
Robert, Louis	Asst
Poirer, M	Asst
Silver, R C , M A	Asst
Messac, Régis	Asst

Geography

Stevens, A , M A , B Sc	Lectr
Holmes, J.	Asst.

German

Smith, H , M A St And , Ph D.	
Marburg William Jacks Prof	
Clark, James M , M A , Ph D	Lectr
Brown, James, M A	Asst.

Hebrew and Semitic Langs

Stevenson, W. B , D D , D Litt	
Edin	Prof
Harris, E. J , M A , B.D	Asst

History, v also Div , Law, Pol Econ

Medley, D J , M A Ox	Prof
Browning, A , M A.	Lectr
Brown, W E , M A (British H)	
	Lectr
Miller, S. N , M A (H. and Antiq ,	
Roman)	Lectr
Rait, R S , C B E , M A Ox ,	
LL D (H and Lit , Scot)	
	Prof
Douglas, David C , M A.	Asst.

*Humanity, v Classics**Italian*

Grillo, Cav E , K C O I , M A ,	
Litt D Flor , LL D Perugia	
	Lectr.
MacKiven, A D , M A	Asst.

*Law, v infra**Logic and Rhetoric*

Latta, R , M A , D Phil Edin	Prof.
Levett, Margaret J., M.A	Lectr.
Macbeath, A , M A	Lectr.
Haydock, G H , M A , B Litt.	
	Asst
Mitchell, J S , M A , B Sc	Asst

Mathematics

Gibson, G A, LL D Edin, M.A. Prof
 M'Arthur, N., M A, B Sc Lectr
 MacRobert, T. M., M A., D Sc Lectr
 M'Whan, J, M A, Ph D Lectr
 Arthur, W, M A Lectr
 Blades, R F, M A, B Sc Asst
 Rodger, Janet F, M A Lectr

*Medicine and Surgery, v. infra**Metallurgy, etc, v p 269**Mining*

Dron, R W, A M I C E
 Adam, D, B Sc Dixon Prof Lectr

Music

Davies, Sir H Walford, Mus D, LL D Lectr for 1923-24

Naval Archit, including Marine Engin.

Hillhouse, P A, D Sc Harv. John Elder Prof
 Evans, D L, B Sc Lectr
 Asst

Philology, Comparative

Pirie, J W, M A Aberd Lectr

Philosophy, Moral, v also Logic and Psychol

Lindsay, A D, C B E, M A Ox Prof
 White, Alex K, M A Lectr
 Phillips, I W, M A Lectr
 Gibson, A B, M A Asst

Philosophy, Natural

Gray, A, LL D, F R S Prof
 Green, G, M A, D Sc Lectr
 Cochrane, Charles, M A., B Sc Lectr
 Allan, G E, D Sc Birm.

Arnott and Thompson
 Demr in Expl Physics
 and Lectr in Elec-
 tricity

Houstoun, R A, D.Sc., Ph D.
 (Physical Optics) Lectr.

Gray, R C, M A, D Sc.

Carnegie Teaching Fellow

Robertson, J, M A, B Sc Asst
 Shearer, J F, M A, B Sc. Asst
 Younger, A J, M A, B Sc Asst.

Physics, Applied

Gray, J G, D Sc Prof

Physiology

Paton, D Noel, M D, B Sc, LL D Edin, F R S

Watson, A M (Histology) Reg Prof Lectr
 Henderson, Pearl, B Sc (His-
 tology)

Lectr & Muirhead Demr
 Wishart, G M, B Sc, M B

Grieve Lectr
 Buchanan, Douglas N, B Sc Asst

Garven, H S D, B Sc, M B Asst

Physiolog Chem

Cathcart, E P, M D, D Sc, F R S Gardiner Prof.

Polit Econ

Scott, W R, M A, Litt D Dub, D Phil, LL D St And
 F B A Adam Smith Prof
 Smith, C F, B A (Econ Hist) Lectr
 Jack, D T, M A Asst

Political Philosophy

Duff, R A, M A, D Phil Lectr.

Psychology

Watt, H. J, Ph D Wurzburg, D Phil. Aberd Lectr.

Russian [Sir William Weir Lectr
 Brennan, H G, M A Lond

Social Economics

Cunnison, James, M A. Lectr

*Theology, v. Divinity**Zoology*

Kerr, J. Graham, M.A. Camb, F R S. Reg Prof.

Dunkerly, J S, B Sc, Ph D
Lond Lectr
Carter, G. S, B A Lectr
Jepps, Margaret W, M A Asst
Miller, Agnes E, M A Asst
Chumley, James Research Fellow.

Law

Gloag, W. M, K C, B A Ox, LL D Edin Reg Prof

Civil Law

Muirhead, J. S, LL B Lectr

Const Law and Hist

Mungo, D B, LL B Lectr

Conveyancing

M'Kechnie, W S, LL B, D Phil [Prof

Evidence and Procedure

Lamond, R, LL B Lectr

Internat Law, Public, and Internat Private Law

Nicol, R M, LL B Lectr

Jurisprudence, Genl

Mitchell, A A, LL B Lectr.

Mercantile Law

Wright, T G, LL B Prof

Medicine (for subjects of first 2 yrs.—Anat., etc., v *supra*)

Bacteriology [Gardiner Prof

Browning, C H, M D, D P H

Dunlop, E M, M B Lectr

Dermatology

Nicol, J W, M B, C M

M'Call Anderson Mem Lectr

Smith, J Ferguson, M A, M B Lectr

*Ear and Throat and Nose,**Diseases of, v also Nose*

Gray, A A, M D (Ear) Lectr

Harper, James, M A, M B Lectr

Electrical Diagnosis and Therapeutics [Lectr

Riddell, J R., F R F P S G

Chapman, Katharine M., L R C P. Lectr

Eye, Diseases of the
Ballantyne, A J, M D Lectr.

Forensic Medicine [Reg Prof

Glaister, J, M D, D P H

Lindsay, D M, M B Asst

Wylie, J, M B

Asst for Pub Health

Infancy and Childhood

Findlay, L, M D, D Sc (Med Diseases) Lectr

MacLennan, A, M B (Surgery and Orthopædics) Lectr

Tennent, Robert, M B Asst

Insanity

Henderson, D K, M D Lectr

MacDonald, J H, M B, Ch B (Psych Med)

Mackintosh Lectr.

Materia Medica [Reg Prof

Stockman, R, M D Edin

Campbell, David, M A, B Sc., M B Pollok Lectr

Clark, G H, M D., D P H

Weir Asst

Medicine [Muirhead Prof

Hunter, W K, M D, D Sc

Cruickshank, J N, M B Asst

Smith, David, M B Asst

Medicine, Clinical

Anderson, J B M., M B Lectr

Jack, W. R, M D, B Sc Lectr.

Henderson, J, M D Lectr

Cowan, J M, M D, D Sc Lectr

Medicine, Practice of [Reg Prof

Monro, T K, M A, M D, C M

Allan, G A, M B Asst

Adams, Douglas K, M A, B Sc, M D Asst

Midwifery

Cameron, M, M D Reg Prof

Cameron, S J, M B

Lectr & Asst.

M'Lellan, A N, M B, C M Asst

Nose and Throat, Diseases of the

Syme, W. S, M D Lectr

Young, Gavin, M B Asst

Obstetrics and Gynæcology
 Kerr, J M M, M D Muirhead Prof
 Hendry, J, M.A, B.Sc., M B Asst
 Cameron, S J, M B (Clin) Lectr
 Shannon, David, M.B (Clin) Lectr
 M'Intyre, D, M B Asst.

Pathology
 Muir, R, M A, M D Edin, Prof
 Sc.D, F R S
 Blacklock, J W S, M B Asst
 Cappell, D F, M B Asst
 Teacher, J H, M A, M D St Mungo-Notman Prof
 Burton, J A G, M B, D P H Lectr
 Marshall, Alice J, M B St Mungo-Notman Asst

Pathological Histology [Lectr.
 Strachan, A S, M A, B Sc, M B

Pharmacy [Lectr
 Middleton, J C, M.A, B Sc, M B

Psychological M, v Insanity
Public Health, v also Forensic
 Currie, J R, M D Edin, D P H Birm Prof

Surgery [Reg Prof.
 Macewen, Sir William, C B, D Sc. Ox & Dub, LL D Glas & Liv, M D, F R S.
 Macewen, J A C, B Sc, M B., C M Asst.
 Dunbar, J, M B Asst.
 Robertson, J G M'Gregor, M.B. Asst.
 Kennedy, R., M A, D.Sc, M D. St Mungo Prof
 Swanson, G C, M B. St Mungo Asst
 Battersby, J, F R C S. Asst

Surgery, Clinical
 M'Gregor, A. N, M D. Lectr
 Kay, T, M B, C M Lectr.
 Edington, G H, M D, D Sc Lectr
 Patrick, J, M A, M B. Lectr.
 Macrae, Farquhar, M B Lectr.
 Macewen, J A C, M B Lectr.

Tuberculosis, Clinical
 Crocket, J, M D Edin Lectr
 Macgregor, A S M, M D Lectr.

Venereal Diseases
 Watson, D, M B, C M. Lectr

GENERAL INFORMATION (v. also p. 238)

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI of Scotland in 1577. In 1864-70 the old college buildings and site were sold and new buildings were erected in a more suitable position on the crest of a hill (Gilmorehill) to the west of the city. Funds for this were obtained partly from the proceeds of the sale, partly from public subscription, and partly from a Parliamentary grant of £120,000. Queen Margaret College was acquired by gift in 1893 for the use of women students. The Carnegie Trust contributed £60,000 towards the cost of additional buildings which were completed in 1907, and a neighbouring estate was presented by the MacLellan family in 1917.

The LIBRARY, founded in the 15th century, contains 200,000 vols, including 300 books printed before A.D. 1500, and much other material for research. More than 500 current periodicals are taken in. The HUNTERIAN MUSEUM, founded in 1783, contains important collections of MSS., coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow

stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general Hospls are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. Arts, Science, Engineering, Medicine, Theology, Law. Depts. of Applied Science—Engineering (Civ, Elec, Mech, Mining, Naval Archit), Applied Chem., Agric., Public Health, Pharmacy.

DEGREES, v. p 240 Applications by Overseas students for remission of part of the class attendance for B Sc in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr course, for graduates (the first yr of the Ed B course). *Certificates* of Proficiency in Engineering Science and in Mining Engin, 3 yrs' courses, of which first yr may be taken in Roy Tech Coll, no prelim examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation include several resident outside the United Kingdom, namely in Cape Town (in Nat Philos, Chem, Bot., Zool), Grahamstown (Physics, Chem, Bot, Zool), Johannesburg (Zool and Chem), and Stellenbosch (Bot, Chem, Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean, v also p 242. A Post-graduate *Medical Asscn* organizes demonstrations for Med Practitioners, fee for series, Nov to May, 3 gs, programme obtainable from the Secy, P-G. Med Asscn, The Univ.

CLASS FEES For LL B, 40 gs, B L, 30 gs, M B, Ch B, about £250 for 5 yrs. Combined M A. and B Sc, 112½ gs. V also p 241.

SCHOLARSHIPS FOR GRADUATES about 76 of from £30 to £280 p a, most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p a, chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) V also p 242.

RESIDENCE. Two Hostels for men students—the MacLay Hall and the MacBrayne Hall—which are under the control of the University were opened in 1923. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ, for from 35s to 50s per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

A STUDENT WELFARE COMMITTEE has been formed for the purpose of raising funds for the provision of Hostels, increased Union accommodation, and the completion of the Athletic Ground. Grants have been received from the Univ. Grants Committee and the Carnegie Trust, and many donations have been received from private benefactors and other sources. In all the sum of about £85,000 has been raised.

ADULT EDUCATION Free public lectures are delivered during winter on various subjects.

PUBLICATIONS. *Calendar* (July), *Glasgow Univ. Magazine*, weekly during winter session; *Examn Papers*, Prelim and Degree, 6d per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates.

THE YEAR 1922-23

* **BENEFACTIONS** H. Mechan, £25,000 for Chair of Public Health, late W Gemmell, £20,000 for Samson Gemmell Chair of Medical Pædiatrics, Rev. Dr James Lindsay, £25 for Essay on "The Value of Metaphysics for our Time", D Sclanders, £250 for an Essay on "Reparations", Lawrence MacBrayne, a dwelling-house as a Men Students' Hostel, Carnegie Trust for Univs. of Scotland, £2500 for adaptation and equipment of the same, Prof. J. W. Goudie, £500 to found a Bursary in Engineering, Right Hon. Lord MacLay, £250 to provide salary of Lectr in Tuberculosis for 5 years. Also v *supra*, "Student Welfare Committee"

NEW BUILDINGS The new Zoology building (£112,000) is now in occupation. Erection of a building (£122,000) to complete West Quadrangle of main Univ Building for Faculty of Arts, and incorporating War Memorial Chapel, commenced. Also v *supra*, "Residence"

NEW APPOINTMENTS Chair of Mining, vacant since 1917, was filled

LEGISLATION — By new Ordinance governing the Degree of B Sc in Engineering a Faculty of E is instituted, the curriculum for the Degree (now an Honours Degree) extends over 4 sessions

HONORARY DEGREES CONFERRED. *DD* — M Gardner, T Gregory, G A F Knight, Prof Jean Monnier, R Morton, I J Robertson, N Soderblom, W. Swan *LLD* — R A Bell, Sir W Morley Fletcher, Prof Graham Lusk, T. Garrigue Masaryk, J Bruce Murray, Sir T Paxton, Dr A. Matland Ramsay, Prof C Sanford Terry.

OTHER DEGREES *MA* — 327, *B Sc* — 308, *MB*, *Ch B* — 285, *MD* — 16, *Ch M* — 1, *BL* — 17, *LL B* — 20, *BD* — 2, *Ed B* — 1, *Ph D* — 7, *D Sc* — 4, *D Litt* — 1.

RESIGNATIONS Prof. Andrew Gray (*Nat Phil*), Leonard J. Russell, apptd Prof (*Philos*) at Bristol, Donald Patton, apptd Lectr in Science under Provincial Committee for Trg of Teachers, W F Shanks, apptd Prof (*Physiol*) in Leeds, Adam Patrick, apptd Prof (*Med*) in St Andrews.

STUDENTS. Total, full-time, 4292, part-time, 271. Matriculated Arts, 1610 (including women—865), Sc, 1380 (w—156), Theol, 48, Med, 1570 (w—316), Law, 270 (w—10), Single Class, 18 (w—6)

THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated to the University of Glasgow.]

Chairman of the Board of Governors—JAMES MACKENZIE, LL D

Director—H. F. STOCKDALE, LL D.

PROFESSORS, LECTURERS, ETC., January 1, 1924.

Architecture and Building

Hughes, T H, ARCA,
ARIBA

Prof and Dir of Arch
Studies

Gourlay, C, B Sc, FRIBA Prof

Brown, T, A I Struct E Lectr

Smith, Wm J, ARIBA

Lectr

Botany and Bacteriology

Ellis, D, D Sc Lond, Ph D

Marb Lectr

Zamorska, Miss W Asst Lectr

i Demr

Chemistry, Technical

Gray, T, D.Sc, Ph D Jena, FIC

Young Prof and Dir of
the Sch of Chem

Cruickshanks, G S, Ph D Leip,

FIC Lectr

Buchanan, Walter J, ARTC

Demr

Heriot, T H P, FIC

Lectr (Sugar Manuf)

Chem, Inorg and Analyt

Caven, R M, D Sc Lond, FIC

Prof

Sutherland, Maggie M J, D Sc,

FIC Lectr

Cranston, J A, D Sc, AIC

(Physical Chem) Lectr

Duncan, J. G, FIC, ARTC

Lectr

Gordon, P. F., AIC. Lectr.

Demrs

Pickering, E C, B Sc Lond,
AIC

Brown, A. C, AIC, ARTC.

Macaulay, R M, AIC

Crawford, A B, B Sc, ARTC,

AIC

Steel, J K, B Sc, ARTC,

AIC

Burns, R, ARTC, AIC.

Chemistry, Organic

Wilson, F J, D Sc Edin, Ph D

Leip, FIC Prof

Cumming, W M, B Sc, FIC

Lectr

Hopper, I V, B Sc Lond,

ARCSI, FIC Lectr

Dyeing, Bleaching, etc

Steven, A B, B Sc Lond, FIC

Lectr

Engineering, Civil

Mohcur, G, B Sc Edin, MICE,

M Amer SCE Prof

Hunter, W, B Sc Lond,

AMICE, ARTC Lectr

Thomson, G, MA Edin, MICE.

(San Eng) Lectr

Engineering, Electrical

Smith, S Parker, D Sc, MIEE,

AMICE Prof

MacKellar, D J, B Sc, ARTC,

AMIEE Lectr

Meade, F E, AMIEE. Lectr.

Asst Lectrs and Demrs .
 Farrell, J. F. E., B Sc ,
 A M I Mech E.
 Shearer, G., B Sc
 Sharp, H S N

Engineering, Mechanics
 Longbottom, J. G., A R C S ,
 M I Mech E Prof.
 Blackadder, W., D Sc Edin ,
 A M I C.E Lectr
 Blacklock, W., B Sc Lond Lectr
 Grassie, J. C., B Sc Demr
 Ramsay, J., A M I C E Demr
 Gnodde, E. P. D., B Sc Demr

Engineering, Mechanical
 Mellanby, A. L., D Sc Durh ,
 M Sc McG., M I Mech E
 Prof
 Sinclair, J. H., M Sc Vict , B Eng
 Liv Lectr
 Kerr, Wm., Ph D., A R T C ,
 Smuth, J., B Sc., A M I Mech E
 Lectr

Asst Lectrs and Demrs .
 Caldwell, P. S., A R T C ,
 A M I Mech E
 Ferguson, W
 Milnes, W. A
 Sneed, O., B Sc
 Garrick, J. A., B Sc
 Biggam, J., B Sc

Engineering, Mining
 Burns, D., M I Min.E Prof
 Stevenson, J Lectr
 Miller, Wm., B Sc. Demr
 Hutchison, J., B Sc Demr.

Geology, Economic
 Edwards, E. J., M Sc. Manc. and
 Leeds Lectr.

Mathematics
 Miller, J., M A., D Sc. Prof
 Paul, J., M A., B Sc Lectr
 Heddle, Eric W. M., M A., B Sc
 Lectr

Metallurgy
 Andrew, J. H., D Sc Manc Prof
 Regan, W., B Sc., A R T C., A I C.
 Lectr
 Higgins, R., B Sc., A R T C
 Asst Lectr & Demr

Metallurgical Chemistry
 Hay, R., B Sc., A I C. Lectr

Natural Philosophy
 Muir, J., D Sc., M A Camb
 Freeland Prof

Lectrs
 Rankin, J. S., B Sc., A R T C.
 Morton, E., A R C S I., A I C
 Cameron, Jessie G., M A., B Sc

Asst Lectrs and Demrs :
 M'Kerracher, D., B Sc., A R T C.
 Macaulay, J. M., B Sc., A R T C

Naval Architecture
 Gray, W. M., B Sc., M I N A
 Lectr

Pharmacy and Mat Med
 Todd, J. P., Ph C Lectr

Sugar Manufacture, v Chem
Textile Manufacture
 Watson, W. Lectr.
 2 Asst Lectrs

GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861), were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ of Glasgow in March 1913

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only. Archit and Building, Naval Archit, Textile Manuf. There are also Departments of Navign.

and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem and Metall, 4) yrs. ; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists ; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £60,000 has been raised, is carried on at the College.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs' course) are issued.

FEES for tuition diploma, 25 gs p a , degree, 90 gs for course.

THE YEAR 1922-23

BENEFACTIONS By persons associated with Messrs. Walter Duncan & Co, Glasgow, London, and Calcutta, £3036 to endow research scholarship, late James Smith, £1000 ; Lanarkshire Coalmasters' Assocn., £600 p a for 5 yrs for Mining Dept ; J S Allan, £100 to found memorial prize.

STUDENTS Full-time, 672, others, 4972. 66 students were from abroad—India, 28, S Africa, 9, Norway, 5, Egypt, 4, Japan, 3 ; West Indies, 2, Argentine, 2, Australia, 2, China, 2, Finland, 2 ; other countries, 7. Of 146 students who graduated 94 had taken the whole or major part of course in the College.

UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The
Rt. Hon EARL HAIG OF BEMERSYDE, O.M., K.T., G.C.B., etc.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE
UNITED COLLEGE—JAMES COLQUHOUN IRVINE, C B E, Ph D,
D Sc, LL D Glas, F R S

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—RUDYARD
KIPLING, LL D, D Litt.

SECRETARY AND REGISTRAR—ANDREW BENNETT

LIBRARIAN—J M ANDERSON, LL D.

PRINCIPAL OF ST MARY'S COLLEGE—Very Rev G GALLOWAY, M A.,
D Phil., D D

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—J Y MACKAY, M D,
LL D

ADVISERS OF STUDENTS AT ST ANDREWS: IN ARTS—Prof WEBSTER,
IN SCIENCE—Prof HERRING, IN MEDICINE—Prof WATERSTON
AT DUNDEE IN ARTS AND SCIENCE—Prof STEGGALL, IN MEDICINE
—Prof CHARTERIS

UNIVERSITY COURT

PRESIDENT—THE RECTOR
THE PRINCIPAL, *ex officio*

THE PRINCIPALS OF ST MARY'S
COLLEGE and UNIVERSITY
COLLEGE, DUNDEE, *ex officio*

THE PROVOST OF ST ANDREWS
and THE LORD PROVOST OF
DUNDEE, *ex officio*

JAMES YOUNGER, LL D

WILLIAM LOW, O B E, LL D.

A MACGILLIVRAY, C M, M D,
D Sc

J M DAWSON, M A

G LAWSON, M A

JAMES CUNNINGHAM, M A, LL.D

Prof BURNET

Prof STEGGALL

Prof HERRING

SECY.—ANDREW BENNETT

PROFESSORS, LECTURERS, ETC, January 1, 1924

Anatomy
Waterston, D, M A, M D, C M
Edin Bute Prof
Mackay, J Y, M D Edin, LL D
Prof *
Dow, D R, M B, Ch B (Regional
A) Lectr. & Asst.

Taylor, John, M D., Ch M.
Lectr. & Asst *
Thomson, Christina J, M B,
Ch B Asst *
Skæe, F M T, M D, C M Asst *
Ferguson, J, M B, Ch B Asst *
Archæology, v. History

* At Dundee

*Biology, v Nat Hist**Botany*

.....	Prof *
Robertson, R A, M A., B Sc	Reader
West, G	Lectr *
Stirling, J, B Sc	Asst

Chemistry

Read, J, M A Camb, B Sc Lond,	Ph D Zur	Prof
Macbeth, A K, D Sc Belf, M A		Lectr
Steele, Ettie S, M A, B Sc, Ph D		Lectr & Asst
M'Kenzie, Alex, M A, D Sc,	Ph D Berl, F R S	Prof *
Boyle, J S W, M A, B Sc, Ph D		Lectr & Asst *
Hynd, Alex., M A, D Sc (Clinical C)		Lectr
Walker, Nellie, B Sc, M A, Ph D		Lectr & Asst *
MacOwan, G, M A, B Sc, Ph D		Asst
Macdougall, Elhz, B Sc		Asst *

Classics

Burnet, J., M A Ox, LL D Edin,	Ph D, F B A (Greek)	Prof
Lorimer, W L, M A (Greek)		Lectr & Asst
Dall, Mrs A, M A, Ph D		Asst
Lindsay, W M, M A Ox, LL D,	Litt D, Ph D, F B A (Humanity)	Prof
Thomson, H J, M.A, D Litt (Latin)		Lectr & Asst
Mills, T R, M A (Latin)		Lectr *

Divinity

Galloway, G, M A, D Phil, D.D Edin		Primarius Prof
Duncan, G S., O B E, M A, B D, B A (Bibl Crit)		Prof
Baxter, H J, M A, B D (Ch Hist)		Prof
Morgan, C. Lloyd, D Sc, LL D, F.R S		Gifford Lectr

Education

.....	Prof †
<i>Engineering, Civ and Mech, and Drawing</i>	
Fulton, A R, D Sc	Prof *
Walker, W J, B Sc, Ph D	Lectr & Asst *
Whyte, F, B Sc, A M I C E	Lectr & Asst *

Engineering, Electrical

Mackay, W Morton, B Sc	Lectr
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English Lang and Lit

Webster, A Blyth, M A	Berry Prof of E Lit
Peterson, W G, M A	Lectr & Asst
Soutar, G, M A, D Litt	Lectr *
Wright, Miss S L P	Asst
Graham, Margaret, M A Glas	Asst *

French Lang and Lit and Rom Philol

Lewis, C B, B A, L ès L, Ph D	Lectr †
Tanqueray, F J, L ès L, B Sc, D Litt, O A	Lectr †
Aubry, Alice, L ès L	Asst

Geology

Innes, D E I, M A	Lectr †
Kirk, S R, B Sc	Asst
Cumming, G A, B Sc	Asst

German and Teut Philol

Smith, Muriel, M A.	Lectr
Hayens, K, M A, D Litt	Lectr *

Hebrew and Oriental Langs

Kay, D M, D S O, D D Edin, M A, B Sc	Prof
.....	Asst

History, Ancient, and Archæol

Burnet, Professor	Lectr
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History, Mediæval [Lectr †

Williams, J W, M A, B Litt Ox	
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* At Dundee.

† At St. Andrews and Dundee.

History, Modern

Mackie, J D, M A Lectr †
 Box, P H, M A Ox. Asst.

Law, Scots

Allison, J, C B E., M A., LL.B. [Lectr *]

Logic and Metaphysics

Stout, G F., M A Camb, LL D, F B A Prof

Logic and Psychology

Morrison, D, M A Lectr †
 Wright, J N Asst †

Mathematics and Applied Maths

Turnbull, H W, M A Reg Prof
 Steggall, J E A, M A Camb Prof *

Saddler, W, B A Camb, M.A. Lectr & Asst

Butchart, R K, B Sc, Ph D Lectr & Asst *

Black, C, M A Asst *

Williamson, J, M A Asst

*Medicine and Surgery, v. infra**Natural History*

Thompson, D'A W, C B, M A, D Litt, F R S Prof

Gemmell, J F, M A., D Sc, M D Glas Prof *

Sutherland, Christina, M A, B Sc Asst *

Burt, D R R, D Sc Asst

Philosophy, Moral, v also Logic

Taylor, A E, M A Ox, D Litt, F B A Prof

..... Asst

Philosophy, Natural

Allen, H Stanley, M A, D Sc Prof

Bagot, J C Lectr & Asst

Robson, W. G., A.R.C.S., Lectr

Dallas, Adolphine E M M, M A, B Sc Edin Asst

Forrest, J, M A, B Sc Lectr & Asst *

Malcolm, Ada, B Sc Asst *

Smith, Winifred J, B Sc Asst *

Physics

Peddle, W, D Sc. Edin. Harris Prof. *

Physiology

Herring, P T, M D Edin. Chandos Prof.

Carruthers, Albert, B Sc. Asst.

Reid, E W, B A, M B, Sc D Camb, F R S Prof *

Stiven, D, B Sc Asst *

Political Economy

Morrison, C, M A, LL B Lectr

*Psychology, v. Logic**Pub. Health, v Med—Fevers**Theology, v. Divinity**Zoology, v Nat Hist.**Medicine (for subjects of first 2 yrs.—Anat, etc., v. supra)**Anæsthetics*

Mills, Arthur, M.D. Lectr *

3 Instrs.

Bacteriology

Tulloch, W J, O B E, M D, D P H Prof *

MacLennan, Norman, M B, Aberd, D P H Lectr

Thomson, Wm, M B, Ch B Asst *

Cumming, W M, M B, Ch B. Asst *

Diseases of Children

Rogers, J S Y, M B, C M Lectr *

Price, Prof. Ll T Lectr *

Diseases, Mental

Mackenzie, W T, M.D Lectr *

Diseases, Throat, Nose, and Ear

Mathers, R. P, M D Lectr *

Morgan, J M'I, M B, Ch B Clin Tutor.

Diseases, Skin

Milne, F M., M A., B.Sc, M B, Ch B Lectr *

* At Dundee

† At St. Andrews and Dundee.

Fevers and Pub Healih

Burgess, W L, M.B, Ch B, M.D,
D P H, D T M and H Lectr
MacVicar, Elhz W, M B, Ch B
Asst

Forensic Medicine

Lennox, D., M D Lectr.*

Materna Medica

Charteris, F J, M D Glas Prof *
Buchanan, W E A, M B, Ch B
Asst *

Medicine

Patrick, Adam, M D Glas Prof *
Morgan, J M'l, M B, Ch B
Asst *

*Medicine, Clinical **

Profs Charteris and Patrick, Drs.
Foggie, and Kerr (Lectrs),
Drs Stalker, Malcolm, Scott,
and Rankine (Tutors)

Midwifery

Kynoch, J A C, M B, C M
Edin Prof *
Fairhe, Margaret, M B, Ch B
Asst & Tutor *

Midw and Gynæc

Buist, R C, M A., M D Lectr *

Ophthalmology

M'Gillivray, A, C M, M D Aberd,
D Sc Reader *
M'Gillivray, Allister M, M B,
Ch B Clin Tutor & Asst *

Pathology

Sutherland, L. R, M B, C M
Glas Prof.*
Tudhope, G R, M B, Ch B,
D P H Asst & Lectr *

Pathology, Clinical

Milne, F. M, M A, B Sc, M B,
Ch B Lectr *

Radiology and Elec Therap

Pirie, G A, M A, M D Instr *
Milln, G H S, M B, Ch B
Instr *

Surgery

Price, Ll T, M B, C M Prof *
Brown, F R, M B, Ch B,
F R C S Edin (Tutor in
Clinical S) Asst *

Surgery, Clinical

Anderson, J, M B, Ch B,
F R C S Edin Lectr *
Alexander, R C, M A, M B,
F R C S Edin Lectr *
Taylor, John, M D, Ch M
Tutor *

Tuberculosis

[Instr *
Hunter, J H, M B, Ch B, D P H

Vaccination

[Lectr *
Scott, Douglas, M B, Ch B

Veneral Diseases

[Instr *
Laird, Andrewina, M B, Ch B
Averill, C, M B, Ch B Instr *

* At Dundee.

GENERAL INFORMATION (v. also p. 238)

The University was founded in 1411. In 1747 St Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name, "United College of St Salvator and St Leonard" St Mary's College (1537) has, since 1579, been restricted to the teaching of Theology University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

LIBRARY 160,000 printed vols. (some of 15th and 16th centuries) MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee MUSEUMS at St Andrews—Anat, Anthropol, Ethnol, Geol, Mineral, Nat Hist, at Dundee—Geol, Med, Nat Hist LABORATORIES at St Andrews—in all above depts except Med, also Chem. (with special Research lab), Marine, Physics, Physiol, Bot. Garden At Dundee—Anat., Bact, Chem, Embryol, Engin (Elec., Hydraulic, Mech), Mat. Med., Maths., Nat. Hist, Physics, Physiol.

DEGREES, ETC, v p. 240 Courses for graduation in Arts and Science are given both in the United Coll, St And, and in Univ. Coll, Dundee, some being given in both places, some—Greek, Hebrew, Hist, Moral Philos, Pol Econ—only in St. And, some—Engineering—only in Dundee Medical studies after the first two yrs are taken solely in Dundee, where facilities for clinical instruction are available Here also is provided a course in Scots Law. Associated with the Univ. is the Dundee School of Social Study and Training.

The M A. Course includes a General and a Special examn The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths or Philos., at least two must be Linguistic, and at least one Scientific. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time

The B Sc in Pure Science Ordinary degree involves a 3 yrs' course, embracing at least 4 subjects with a 1st examn (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs' course (the last year being devoted exclusively to advanced study in the Hons subject) with 2 exams—a 1st in 4 subjects and an Honours in one.

Diplomas: Education, for graduates who complete the first year of the Ed B course, D P H, 12 months, L D S, 4 yrs; L L A (for women), attendance on courses not required, standard about the same as that of the ordinary M A, Social Study, 2 yrs after obtaining M A or B Sc **Certificate** in Social Study for non-graduates over 21 with good general educn, 2 yrs.

FEES for Tuition. B Sc, £80, B Sc (Engineering), 90 gs, B Sc Hons, 90 gs, M B, Ch B, £182 Combined Courses M A and B Sc, 112½ gs; M A and M B, Ch B, £208, M A, B Sc and M B, Ch B, £236, B Sc and M B, Ch B, £220 The above do not include fees for hospl ticket or cases of labour, or laboratory fees for use of apparatus, etc Maximum fee for Research students, 5 gs a term Degree fees for M D or Ch M, 15 gs, D Litt, D.Sc, Ph D, L D S, or D P H, 10 gs Dipl or Certif in Social Study, 4 gs; v also p 241

RESIDENCE University Hall for Women (Warden) at St Andrews, £66 and upwards p a, exclusive of tuition fees Hostel for women students, Dundee (Warden), £40 p a Chattan House for men (Warden) at St. Andrews, £56 p a and upwards, exclusive of tuition fees

SCHOLARSHIPS FOR GRADUATES 20, annual value about £1200; v also p 242

PUBLICATIONS *Calendar* (June), 3s 6d; U. Coll, Dundee, *Calendar*, 6d, Students' Repve Council's *College Echoes* (St And) and *The College* (Dundee).

THE YEAR 1922-23

BENEFACTIONS J. Sturgeon Mackay, Math. Library, Nat. Philos. Apparatus (Prof Butler), Communion Table, Univ Chapel (Dr Jas. Cunningham), MacEwan Surgery Prize.

NEW BUILDINGS, ETC Storeys added to Chemistry and Physics Laboratories, St Andrews, Men Students' Union extended and refurnished

NEW DEPARTMENTS AND POSTS Lectureship in Elec Engin; Instructors in Radiology and Elec Therapeutics, Tuberculosis, and Venereal Diseases, Asst in Geol, Physiol, Public Health, and Fevers.

NEW ORDINANCES, ETC. Amending regns. for graduation in Arts and in Science, amending regns for Millar Prizes, Act of Parliament adding Lecturers as members of General Council and enabling amendment of Pension Scheme for Professors, fixing of retiring age, etc.

DEATH. Emeritus Prof A S. Butler, March 1923

RESIGNATIONS AND RETIREMENTS R Robinson, Prof. of Chem, transferred to similar chair in Manchester, succeeded by John Read, Sydney, A. S. Stalker, Prof. of Med, retired, succeeded by Adam Patrick, Glasgow, R. R. Rusk, Lectr. in Educn, retired, Lt -Col Harvey, appointed Lectr in Bacteriology to succeed F G Macnaughton, retired, and succeeded by N MacLennan

DEGREES CONFERRED M A, 43 (including women—27), B Sc, 79 (women—14), B D, 2, M B, Ch.B., 41 (w—15), M D, 1 (w—1), B Phil, 2; Ph D, 12 (w—1).

STUDENTS. Undergraduates proceeding to degrees, 660 (women—291), other full-time students, 103 (w—24), part-time, 41 (w—14)

UNIV EXTENSION. Programme of evening classes arranged for 1924 for railway managing and clerical staffs in Railway Law, etc

THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H M THE KING

CHANCELLOR—The Rt Honourable THE MARQUESS OF LONDONDERRY,
K G , LL D

PRO-CHANCELLORS—SIR HIRAM SHAW WILKINSON, LL D , D L .
Prof SIR SAMUEL DILL, M A , Litt D , Hon LL D , Rt. Hon.
HUGH O'NEILL, M P , LL D

PRESIDENT AND VICE-CHANCELLOR—R W LIVINGSTONE, M A Ox

REPRESENTATIVE IN THE PARLIAMENT OF THE UNITED KINGDOM
—Col T SINCLAIR, C B , M D , F R C S , IN THE PARLIAMENT
OF NORTHERN IRELAND—J CAMPBELL, M A , M D , LL D ,
F.R.C.S. Eng. , J H ROBB, B A , K C , Prof R. J JOHNSTONE,
B A , M B , F R C S Eng , H S MORRISON, M D

REGISTRAR—Prof T SINCLAIR, C B , M D , M Ch , F R C S E.

LIBRARIAN—Prof G. GREGORY SMITH, M A , LL.D.

SECRETARY—J M FINNEGAN, B A , B Sc.

SECRETARY OF ACADEMIC COUNCIL—Prof R M HENRY, M A

BURSAR—JOHN GREEN, C A

CHAIRMAN OF CONVOCATION—JOHN CAMPBELL, M A , LL D , M D ,
F R C S E

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Agriculture</i>		Dodds, R L , M B	Demr.
8 Extra-Mural Lecturers		M'Laughlin, F A , M B	Demr.
<i>Agricultural Botany and Plant Diseases</i>		Beattie, J , B Sc , M B	Demr. (Embryology).
Mercer, S P , B Sc	Lectr.	<i>Anatomy, Applied</i>	
Gray, Miss Allan, M A , B Sc	Asst	Crymble, P. T , M B , F R C S.	Lectr.
Muskett, A E , B Sc , A R C Sc	Asst.	<i>Archæology</i>	
<i>Agricultural Chemistry</i>		.....	Lectr.
Robertson, G. S , D Sc	Durh ,	<i>Bio-Chemistry</i>	
F C S	Lectr.	Milroy, J A , M A . , M D. Edin.	Lectr.
Dickinson, F	Asst.	<i>Botany</i>	
<i>Anatomy</i>		Small, J , D Sc Lond	Prof.
Walmsley, T , M D Glas.	Prof	Martin, Sarah H , B.Sc.	Demr.
Baker, A H , M B	Demr.	Lynn, Mary J , M Sc	Demr.

Celtic

O'Connell, F W, M A., Litt D.
B D Dub, M R A S. Lectr

Chemistry

Stewart, A W, D Sc Glas Prof
M'Clelland, W E, B Sc, Ph D,
A I C Asst.
Marsh, J K, M Sc Asst
Jackson, Jane H, M Sc Asst

*Chemistry, Applied***Chemistry, Organic*

Graham, Hugh, D Sc Lectr

Classics

..... Prof.
Richardson, L J D, M A Asst
Henry, R M, M A (Latin) Prof
Tate, J, M A Dub (Latin) Asst

Commerce

Meredith, H. O, O B E, M A
Camb, M Com Manc
Dean of the Faculty,
Lectr in C and Geog,
and Prof of Economics.

Recognized Teachers in the
Munic Coll. of Tech

Dodd, F T Lloyd, M A, D Sc
Prof
Boyd, D T., B Com Sc (Account-
ing)
McMillan, H (Accounting)
M'Cracken, W J, B A, B L
(Coml Law)
Dunne, T (Econ, Geog, and
Business Methods)
Fleet, H (French)
Sueyras, M (Spanish)
Carson, J. H A (Maths)

*Dental Science, v infra**Economics, v. Comm, Hist**Education*

M'Callister, W J, M A, B Sc
Prof.

Thompson, J R, M Sc

Master of Method

Simms, Florence, M A Asst
Dorward, Jas, B Sc Asst
M'Caughey, E E, B A Asst
Brown, E M, M A Asst
O'Neill, E E, B A Asst

Engineering, Civil*

Hummel, F H, M Sc Birm,
A M I C E Prof.
White, G, B Sc. Asst
Finnan, E, M Sc Asst

English Language

Belfour, A O, M A Ox Lectr

English Literature

Smith, G Gregory, M A, LL D
Ox and Edin Prof
Semple, W H, B A Asst

French and Romance Philology

Savory, D L, M A Ox Prof
Héritier, Berthe Asst
Moorhead, Margt D, M A Asst

*Geography, v. Com**Geology*

Charlesworth, J K, D Sc. Leeds,
Ph D Bres Prof
Reynolds, Doris, B Sc Lond
Asst.

German

Williams, R. A, Ph D Leip,
D Litt. Dub Prof.

History, Modern

Todd, J E, M A Ox and Edin [Prof
Hughes, E, B A Asst

History, Economic, and Polit Sc.

Lemberger, J, M A Ox Lectr

Law, English

Baxter, J S, LL D Dub. (Dean
of Faculty) Prof.

Law, Jurispr and Roman

Strahan, J A, M A, LL.B. Prof.

* V. *infra* Technology

Logic and Metaphysics [Prof
Laird, J, M.A Camb and Edin
Manning, W H O, B A Camb
and Belf Substitute for Prof

Mathematics
Dixon, A C, M A, Sc D Camb
and Lond, F R S Prof.
Geale, Eliza A, M A Asst

Music
Walker, L, B A, Mus D Lectr

*Philosophy, Moral, and History
of Philos*
Dorward, A J, M A Camb Lectr

Philosophy, Scholastic
O'Keeffe, D, M A Lectr

Physics
Morton, W B, M A Camb Prof
Johnson, R C, B A, B Sc Lectr
Wyle, J, B A Lectr.
Chambers, Florence M, M Sc
Demr

Cameron, W H B
Musgrave Demr
Hall, Mary B Musgrave Demr

Physiology
Milroy, T H, M D, B Sc Edin
Prof
Andrews, S, M B Demr.

Spanish
Llubera, J G, D Litt Mad Lectr

Technology, v infra

Zoology
Wilson, G, O B E, M A, D Sc
Edin, Ph D Freib, M R I A
Prof
Riddell, W, M A Demr

Medicine (for subjects of first 2
yrs.—Anat. etc, v. *supra*)

Gynaecology
Johnstone, R. J, B.A, M B.,
F R C S. Eng. Prof
Greer, H. L. H., M.B. Asst.

Hygiene, v also Pub Health
Wilson, W J, B.A, M D, D.Sc,
D P H. Prof.
Blair, E M, M Sc Demr
Totton, J H, B A, B Sc Demr

Materia Med and Pharmacology
M'Ilwaine, J E, M D Prof
Mayrs, E B C, M D Lectr
Picken, S B, M B Asst

Mat Med and Pharmacy
Fielden, V G L, M D, Ph C
Demr

Medicine
Thomson, W W D, M D., B Sc,
D P H Prof
Turkington, S I, M D, D P H
Asst

Medical Jurisprudence
The Prof of Pathology Lectr
Houston, T, M D, B A Lectr

Midwifery and Infantile Diseases,
v also Vacc
Lowry, C G, M D Prof
MacAfee, C H G, M B Tutor.

Ophthalm and Otology
Craig, J A, M B, F R C S Eng
Lectr

Pathology
Symmers, W St C, M B (Dean
of Faculty) Prof
Lee, J S J, M B, D P H Demr.

Pathology, Clinical
Houston, T., B A, M D Demr

Public Health
Baillie, H. W, L R C P and S
Edin, L F P S Glas, D P H
Lectr

Surgery, v also Anat
Fullerton, A, C B, C.M G, M D,
M Ch Prof.
Hall, H P, M B, M Ch Asst.

Vaccination
M'Liesh, J, M B, D P H (Asst.
in Midw) Teacher

Dental Science

Hunter, W M, L D S Edin (Mat Med) Lectr.
 Elwood, H, L D S Edin and Penn (Mechanics) Lectr
 Swan, H M, L D S, R C S Eng (Surgery) Lectr
 M'Keag, H T A, B D S, B A Dub (Orthod) Lectr.

Technology (v. also Agr. and Engin)

Extra - Mural Staff (Hon), being Profs and Lectrs at the Munic Coll of Tech

Architecture

Beaumont, I, A R C A Lond, F R S A Prof

Building Construction

Hampshire, T R. Lectr

Chemical Technology

Wren, H, M.A, D.Sc, Ph D Prof

Still, C J, M Sc, Ph D, A I C

Lectr

Hughes, Miss K H, B A Lectr

Electrical Engineering and Physics

Matthewman, T H, M A, M I E E Prof

Jefcoat, C, A R C Sc I Lectr

M'Kenna, O, M A, B Sc Lectr

Electro-Technics

Stanley, Rupert, B A, LL D, M I E E (Principal) Prof

Mathematics

Earls, J, B A Prof

Murphy, J J F, B Sc Lond

Lectr

Mechanical Engineering [Prof

Smith, J H, D Sc, A R C Sc

Warnock, F V, B Sc, A R C Sc

Lectr

Fforde, W J (Design) Lectr

Sandham, B, B E (Nav Archit)

Lectr

Textile Industries

Bradbury, F Prof

RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech

ROYAL COLLEGE OF SCIENCE, DUBLIN, providing instruction for the 3rd and 4th yrs of the B Sc (Agr) courses, v p 301

GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast

LIBRARY, 95,000 vols. MUSEUMS Class. Archæol, Nat Hist, Medical, Materia Medica, Sanitary Science. LABORATORIES Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Pathology and Bacteriology ("Musgrave"), Physics, Anat, Bot, Geol, Pharm, Zool. HOSPITALS available for Clinics, 3 general, 10 special (Fever, Maternity, Women, Children, Ophth, Eye, Ear and Throat, Consumption, Lunacy, Skin)

FACULTIES Arts (including Music), Science (including Agric and Civil Engin.), Law, Medicine, Commerce, Applied Science and Technology, Dept. of Dental Science

DEGREE COURSES. 3 yrs —B A, B Sc, B Sc in Engin. or Textile Tech, LL.B., B.Com Sc, 4 yrs —B Sc in Agric; 5 yrs (of which 2 may be in other approved Univs or Med. Schools)—M B, Ch B, B A O, 1 yr —LL B course for graduates of this or another Univ

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Technology; the 3rd and 4th yr courses for the B Sc in Agric in the R.C.Sc., Dublin 3 yrs' day or 5 yrs' evening classes in the M.C.T. qualify for B Sc in Tech 3 yrs' day or 5 yrs' evening classes in the M.C.T. qualify for the B Com Sc

Diplomas Educn (1 or 2 yrs); Higher Dipl. in Educn (for graduates).

HIGHER DEGREES The M A may be taken by a B A 1 yr. after graduation (examn or thesis or independent research) The (1) D Lit and (2) LL D. are conferred on grads of this Univ distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or historical research, they may be obtained by thesis also The M Sc is open to a B Sc. of the Univ and grads of other Univs holding a degree of similar rank after the lapse of not less than 1 yr from graduation (thesis or independent research) The D Sc is open to grads of this Univ 3 yrs after graduation in any faculty It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science The M D, M Ch., and M A O are open to graduates in Medicine of 3 yrs' (if also graduates in Arts or Science, 2 yrs') standing by examn or thesis As regards Ph D see p. 14

FEES Enrolment (annual), 3 gs Class fees, annual (inclusive)—Arts Honours School, 11 gs; Engineering, 21 gs., B Com Sc, 11 gs; Dipl Educn (2 yrs), 6 gs

SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ Studentships of £30. 5 in Arts, which may be raised by £25 and continued for a 2nd yr., 4 in Science. Special grants to Med graduates for original research or clin study Mackay Wilson Travelling Med Scholp, £100 Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., of £200 p.a. for research. Four other Studentships of the aggregate annual value of £330

RESIDENCE. Women's Hostel Board and residence per annum, about £52 Board and lodging obtainable in the town from about 25s a week upwards

RECOGNITION OF OTHER UNIVS Students from other approved Univs may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns elsewhere

UNIVERSITY EXTENSION lectures by members of the Univ Staff are given in Belfast and other towns

PUBLICATION *Calendar* (Jan), 2s

THE YEAR 1922-23

BENEFACTIONS Hugh Wilson of Larne (bequest), £1000 for *scholarship* for scientific research, 5 Musgrave research *studentships* of £200 p.a. for Physics, Chemistry, Pathology, Biology, and Physiology

NEW DEPARTMENTS, ETC. (1) *Agriculture* A chemistry and A botany, under arrangement with Ministry of Agriculture (2) *Training of Teachers*: Temporary arrangements for 2 yrs to enable Ministry of Education to build and complete a college for training elementary teachers (a) by admitting candidates in training to pass classes in faculty of Arts, (b) by permitting some members of the staff to assist in work of pre-matriculation standard, (c) by

providing class-rooms, (d) by appointing a master of method. 114 Elem Teachers attended classes in Educn alone.

HONORARY DEGREES LL D—Marquess of Londonderry, Rt Hon. H. O'Neill, Eliza Riddel, Ven'ble R H Charles, Major-Genl Sir R. H Charles M Sc—R. J Welch.

OTHER DEGREES. D Sc., 1, M D, 14 (including women—2), M Ch, 2, M A, 3 (w—2); M Sc, 14 (w—7), B A, 34 (w—13), B.Sc, 31 (w—24), B Sc in Eng or Ap.Sc, 18, LL B, 9 (w—1), M B, 115 (w—28), B Sc in Com, 5; D P.H, 22 (w.—11), L D S, 2, Dip.Ed, 28 (w—13), Higher Dip Ed, 12 (w—7).

RESIGNATIONS. The President and V C., Profs J A Lindsay, T. Sinclair, Sir S Dill

UNIV EXTENSION LECTURES in Spanish Archit, Mod History, Greek Civilization, and Ice Age attended by 147 students Others in Astron. and Geol in 3 provincial centres

STUDENTS Total 1153 (including women—467) In Faculty of Arts, 263 (w—143); Science, 169 (w—95), App Sc, 60, Law, 17 (w—2), Med, 514 (w—151), Com, 46 (w—11), Teachers in Training, 84 (w—55) In addition, 114 Elem Teachers attended classes in Educn

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—The EARL OF IVEAGH, K P, LL D, F R S

VICE-CHANCELLOR—The Rt Hon BARON GLENAVY, LL D

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR), THE LORD CHIEF JUSTICE.

PROVOST—The Rt. Hon and Most Rev. J. H BERNARD, D D.

REPRESENTATIVES IN PARLIAMENT OF IRISH FREE STATE—E H ALTON, M A, SIR JAMES CRAIG, M D, W E THRIFT, M.A

SENIOR FELLOWS OF THE COLLEGE

Gray, T T, M.A, Vice-Provost

Cathcart, G L, M A, Auditor

Purser, L C, M A, Litt D, Registrar

Roberts, W R W., D.D., Senr Lectr

Culverwell, E P, M A, Senr Dean and Catechist

O'Sullivan, A C, M A., M D

Russell, R, M A, Bursar.

JUNIOR FELLOWS OF THE COLLEGE

Fry, M W. J, M A, Sen
Proctor

†Macran, H S, M A

Gwynn, E. J, M A

Thrift, W E, M.A

Smyly, J G, Litt D.

Mooney, G W., M A.

*†Kennedy, W, M A.

*†Golgher, W A, M.A., Litt.D.

*Fraser, J., M A

*†Alton, E. H., M A.

*Gwynn, R. M, B.D.

†Webb, G. R, M A., Junr Bur-
sar and Registrar of Chambers.

*Tate, Sir R W, K B E, M A,
Junr Dean

*Thrift, H, M A

*Canning, H, M A

*†Luce, A A, D D.

*Johnston, J, M A

*†Henry, J M, M A

*†Godfrey, F La T, M A

Joly, John, Sc D.

Rowe, C H, M A.

Fearon, W. R, Sc D, Junr.
Proctor

* Tutor Fellows.

† Honor. Lecturers for 1922-23

PUBLIC ORATOR—SIR R. W. TATE, M A

LIBRARIAN—J G SMYLY, Litt D

REGISTRAR—L C PURSER, M A., Litt D

REGISTRARS OF THE PROFESSIONAL SCHOOLS

Law—W. A. Golgher, Litt D*Civil Service*—E H Alton, M A*Physic*—A C O'Sullivan, M D*Education*—R J Fynne, M A.*Engineering*—W E Thrift, M A*Agriculture*—J Joly, Sc D*Music*—H S Macran, M A

REGISTRAR OF S AFRICAN STUDENTS—G R WEBB, M A

LADY REGISTRAR—OLIVE C PURSER, M A

WARDEN OF TRINITY HALL—ELIZ M CUNNINGHAM, M A

PROFESSORS, LECTURERS, ETC., January 1, 1924

<i>Anatomy</i> , v. Zool and Med —Surg		<i>Classical Archæol</i> , v Hist	
<i>Anglo-Saxon</i> , v German		<i>Classical Composition</i> Tate, Sir R W, M.A	Lectr.
<i>Arabic, Persian, and Hindustani</i> Haig, Sir T W, K C I E, C S I, C M G, C B E (Reader in Ind Hist)	Prof	<i>Classics</i> The Tutorial Staff	Lectrs
<i>Astronomy</i>	Royal	Smyly, J G, Litt D (Greek)	Regius Prof.
Astronomer of Ireland	Prof	Mooney, G W, M A (Latin)	Prof
Martin, C	Asst	<i>Dental Science</i> , v <i>infra</i>	
<i>Biblical Greek and Hebrew</i> Gwynn, R M, B D	Prof	<i>Divinity</i> , v also Bibl Gk, Hist, Theol	
<i>Botany</i> Dixon, H H, Sc D	Prof	M'Neile, A H, D D	Regius Prof
Ball, N. G, M A	Asst	White, N J D, D D (Lectr in Hebrew)	Abp King's Prof.
<i>Celtic Languages</i> Gwynn, E. J, M.A.	Lectr	.....	Wallace Lectr
<i>Chemistry</i> Young, S, Sc.D	Prof	Luce, A A, D D	Asst
Ramsden, W C	Asst	Forrester, J C, M A	Asst
Bailey, K C., M A	Lectr	<i>Education</i> Fynne, R J, M A	Dub and Prof.
Bell, J.	Demr	Lond	
<i>Chemistry, Applied</i> Werner, E. A, Sc D	Prof	<i>Engineering, Civil</i> Clark, D, B Sc. Lond, A M I C E.	Prof.
		Jackson, J T, M A	Asst
		Blair, S C, M.A I	Asst.
		Cotter, J R, M A	Lectr

Engin. Practice, Elec
Tatlow, W., M A , B A.I Lectr

Engineering, Elec Trachon
Harriss, G. M. Lectr

Engineering, Harbour
Griffith, Sir J P., M A I.
Hon Prof.

English Literature
Trench, W Fitz J., Litt D. Prof

French, v also Romance
The Tutorial Staff Lectrs

Geology and Mineralogy
Joly, J , M A , Sc D Prof
Poole, J H. J , B A (Asst in
Physics also) Research Asst
Smyth, L B , Sc B (Palæontology)
Asst and Lectr

German [Prof
Waterhouse, G , M A Camb ,
Litt D (Lectr in Anglo-Saxon)

Hebrew, v also Bibl. Greek, Div.
Kennedy, W , M A Lectr
Alton, E H , M A Lectr

History, Ancient, and Classical
Archæol [Prof
Goligher, W. A , M A , Litt. D
Johnston, J , M A Asst

History, Ecclesiastical
Lawlor, H J , D D , Litt D (Asst
in Div and Lectr on Engl
Bible) Prof.

History, Indian, v Arabic

History, Modern
Curtis, E , M A Ox (also Prof of
Oratory)

Erasmus Smith's Prof
Phillips, W. A , M A Ox
Lecky Prof.

Maxwell, Constantia E , M A
Lectr

Irish
O'Rahilly, T. F , M A Prof.

Italian, v also Romance
Tate, Sir R W , K B E , M A
Lectr.

Law
Bastable, C F , LL.D (also Prof
of Pol Econ) Reg. Prof.

Law, Feudal and English
Baxter, J S , LL.B Lond , M A ,
LL D
Reg Prof (also Lectr in
Civil L and Jurispr).

Law, Const and Crim , etc
Ryan, M J , LL B N.U.I
Reid Prof.

Mathematics
Rowe, C. H , M A
Acting Erasmus Smith's
Prof and Donegal
Lectr

Broderick, T S , B A Lectr.
The Tutorial Staff Lectrs

Medicine and Surgery, v infra

Modern East Indian Langs
Pope, J v. S , M A Camb. Lectr.

Music [Prof
Kitson, C H , M A Camb.,
Mus D Ox , F R C O

Oratory, v History
Curtis, E , M A Ox
Erasmus Smith's Prof.

Oriental Langs , v Arabic,
Hebrew, Modern, Sansk

Philosophy, Moral
Macran, H S , M A Prof.

Mental and Moral Science
The Tutorial Staff Lectrs.

Philosophy, Natural
Fry, M W. J , M A Prof
The Tutorial Staff Lectrs.

Physics
Thrift, W E , M A.
Erasmus Smith's Prof. of
Nat & Exper. Philos.
Thrift, H , M A Asst.

Physiology, v Med.

Political Economy, v. Law

Romance Languages, v. also
French, Ital.

Rudmose-Brown, T. B., M A
Aberd., D Litt Prof
Starkie, W F, B A (Spanish and
French) Asst

Sanskrit and Comp Philol
Canning, H, M A Prof

Theology, Pastoral
Drury, T. W E, M A. Prof.

Zoology and Comp Anat
Gatenby, J B, D Phil Ox, D.Sc.
Lond. Prof.

Medicine

Anæsthetics
Kirkpatrick, T. P. C, M D Lectr

Bact and Preventive Medicine
Bigger, J W, M D. Lectr

Laryngology and Otology
Woods, Sir Robt H., M D, M Ch
Hon Prof

Materia Med and Pharmacy
Moorhead, T. G, M D King's Prof

Med Jurispr.
Bewley, H. T, M D Lectr

*Medicine, Institutes of, and
Physiology*
Pringle, H, M.D. King's Prof.
Fearon, W R, Sc D Asst.

Medicine, Practice of
Craig, J, M D King's Prof

Midwifery
Wilson, T H, M A King's Prof.

Pathology
O'Sullivan, A C, M D. Lectr
Wigham, J T, M D Asst.
Smith, E C, M B Junr. Asst

Physic
Purser, J M, M.D Regius Prof

Surgery and Anatomy
Dixon, A F., M B, Sc D Prof.
Taylor, Sir Wm, K B E, C B,
M D Regius Prof of S
Gordon, T E, M B Prof of S.
Pearson, W, M D Asst in S.
McConnell, A. A, M B
Lectr. in Applied A
West, C M, M D
Chief Demr and Univ
Anatomist

Dental Science

Baker, A W. W., M D, M.Dent.Sc
Lectr (*Dental Surg and
Pathol*)
Friel, E S, M Dent Sc
Lectr (*Orthodontia*)
Cockburn, J, L D S
Lectr (*Dental Mechanics*).

GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as "Mater Universitatis," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions. The power of making new statutes was reserved to the Crown until 1911, when by Letters Patent this power was

given to the Board subject to the consent of a majority of the Fellows and the approval of the Visitors

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in England. It contains 372,000 volumes and 2000 MSS, affording an unrivalled field for the study of Irish palæography. A catalogue of MSS in the Library was published in 1900. There is a lending library of 6000 vols bequeathed by the late W. E. H. Lecky, and departmental libraries in German and the Romance Languages, in Botany, and in Zoology.

MUSEUMS The scientific museums include Zool. and Comp. Anat., Geol. and Mineral, Surg. and Med., Path., Mat. Med., Anthropol., Engin. Models, Nat. Philos. The Zoological are among the best collections in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES Anthropol., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). **BOTANIC GARDENS**, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

DEGREES Every student must take the B.A. before proceeding to any other degree, except those in music. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school are required to attend Arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Juni. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech., Logic, Engl. Essav., Latin, Greek or French or Irish or German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour B.A.*—known as a *Moderatorship*—can be taken in 11 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Philos., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. and Pol. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in some subjects in each term. The course lasts four years in the case of Nos. 1, 2, 4, 5, 6, 7, three

years in Nos. 3 and 10, and two years in No. 8. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.D. is obtained by an examn. open to all grads in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs., the M.B., B.Ch., and B.A.O., 5 yrs., B.Dent Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.), Agr. B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Roy. Coll. of Sc. The Sc.B. and Ph.D. (v. p. 14) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs' standing as B.A., and submit important original work, for LL.D. must be of M.A. standing—a thesis or examn. is required, for M.D. must have taken the M.B. degree and be of M.A. standing, for M.Ch. must be a B.Ch. of 3 yrs' standing, for M.A.O., a B.A.O. of 2 yrs' standing, a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent Sc. must be a B.Dent Sc. of 1 yr.'s standing, and pass an examn., for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus.D. is granted after an exercise or practical test.

DIPLOMAS in Agric., Educn. (Primary and Higher), Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr. course), D.P.H., Religious Knowledge (women).

Testimonium in Divinity (2 yrs' course)

RECOGNITION OF OTHER UNIVS., ETC. Credit is allowed for terms kept at Oxford or Cambridge, but no student or graduate of any other Univ. can take the B.A. unless he has kept at least 2 yrs. at Trinity College. No student can take any medical degree unless he has attended at least 3 yrs. in Trinity College.

A B.A., B.Sc., or M.A. of any of the undermentioned Univs. may be allowed credit *pro tanto* for the first 2 yrs. and the examn. held at their expiration: Aberd., Belf., Birm., Brist., Edin., Glas., Leeds, Liver., Lond., Manch., St. And., Sheff., Wales, and Nat. Univ. of Ireland.

A student who has passed two years in Arts studies at any of the undermentioned Univs. and passed the examns. belonging to that period is given credit *pro tanto* for the first academic year: Adel., All., Bom., Cal., Dalh., McGill, Madr., Mel., N. Brun., N. Zea., Panj., Patna, Syd., Tas., Tor., King's Coll. (Windsor, N.S.).

A student who has passed the Matricn. examn. of any Univ. in S. Africa, including Latin, Maths., and either French, German, Dutch, or Greek, is admitted without further examn., and, if a Med. student, is excused the Prelim. Med. examn. Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examns. in these last two subjects. Courses in Path. and Bact. at Cape Town and Witwatersrand are also recognized.

A student who has passed the Intern. examn. of any Univ. in S. Africa is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Intern. examn.

A student who has passed the B.A. examn. of any Univ. in S. Africa is allowed credit for the 1st two collegiate yrs. and for the Final Freshman examn.

To students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees.

In keeping terms students from S. Africa are allowed to substitute Dutch for French or German, when 2 languages are required 2 exhibitions each are offered for medical students from S Africa, on the nomination of the Univs of S Africa and Stellenbosch, value from £150 to £200 according to the number of years spent in Dublin (3-5)

Likewise the Board and Council are prepared, in the case of students of Medicine, to consider applications from Colonial Univs. and Colls for recognition of courses of instruction given by them

Students from S. Africa should write to the Registrar of S. African students for fuller information.

No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med study in Trin Coll

The Univ of Melbourne is entitled to nominate one of its Med graduates to an exhibition of £100, with rooms rent free for 6 mos. in T C D, intended to defray, in part, the expenses incurred in obtaining the Diploma in Gynæc. and Obst

FEES. Entrance, £15, Composition for all Arts Lectures, 20 gs p.a.; Medical course total (including Hospitals and Degree fees), about £150, Dental Science total, about £200, Engineering, (3 yrs) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs p.a. for others.

Among SCHOLARSHIPS, PRIZES, ETC, OPEN TO GRADUATES are Two studentships of £100 offered at the B A degree examn, prizes from £50 upwards to selected honour graduates with conditions of study and research attached Madden Prize fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn or for research work or foreign study A number of other prizes, etc (including the National Hist, nearly £400), are open to graduates under M A standing

RESIDENCE The College has accommodation for 320 students. Rent £6 to £30 p.a. (for rooms intended to accommodate 2 students), dinner in Hall, 14s a week Trinity Hall accommodates 40 women, board and residence, £23 10s to £28 10s per term of 10 weeks There is also a hostel for Divinity students of the Church of Ireland

PUBLICATIONS *Calendar*, vol 1 (Nov), 4s, includes information as to courses, results of exams, degrees conferred, etc, vol 11 (occasional), lists of past honours, benefactors, etc, *Examn Papers* of the several Honour schools, of the several Professional schools, of Entrance exams and prizes, and of Pass Arts are published in pamphlet form at 1s per set The final *War List* has been published, price 2s 6d *Book of T C D*, 1591-1891, 21s (Hodges, Figgis & Co, Dublin) *Hermathena* (occasional), original papers in Arts subjects T C D (Students'), 3d weekly

THE YEAR 1922-23

BENEFACTIONS £200 for a prize in memory of G M Minchin, F R S, from his widow, \$500 from Mrs Woolson, Portland, U S A, for a prize essay on an Irish author, £100 from Rev E H Weir for a divinity prize.

NEW BUILDINGS The Baths, for which £20,000 was given by Earl Iveagh some years ago, were erected

FINANCE After prolonged negotiations the British Treasury compounded by a payment of £20,000 for any claims of Trinity College against the British Exchequer under the 1920 Act. The Free State Govt. transferred the accumu-

lated fund (£100,000) in the hands of the Public Trustee under the 1903 Land Act to Trinity College, and are giving a further annual grant of £3000. A special grant of £6000 for the past year was also given. All future losses by sales of land are to be borne by the College.

CHANGES IN REGULATIONS, ETC. Ordinance passed giving freer access to the Library to the general public. Ph.D. of Basel Univ. recognized for certain exemptions in course for B.A., Michaelmas Term now runs from Oct. 1 to Dec. 11, Trinity Term from April 20 to July 5, a dept. for training Secondary teachers established for students not eligible for existing joint scheme with Alexandra College, tenure of studentships reduced from 5 years to 1—research grants will be increased in compensation, Honour degrees and undergraduate honours will be divided into 3 classes in future instead of 2.

HONORARY DEGREES *M.D.*—W. J. Mayo, E. H. Tweedy. *Litt. D.*—W. B. Yeats, C. Plummer, R. I. Best.

OTHER DEGREES *D.D.*, 2; *M.D.*, 8, *LL.D.*, 4 (including 1 woman), *D.Sc.*, 1, *Mus.D.*, 1, *B.D.*, 4, *M.A.*, 72 (including women—11), *M.A.I.*, 1, *LL.B.*, 19 (w.—1), *M.B.*, 95 (w.—10), *B.A.I.*, 55, *B.Sc.*, 3; *B.Agr.*, 2, *B.A.*, 311 (w.—61), *Mus.B.*, 3, *Lic. Med.*, 3.

STUDENTS, June 1923 in Arts (including most professional students other than fifth-year medical), undergrads, 947 (including women—225), grads, 118 (w.—20). Total, 1065. In addition 152 med. students not registered in Arts, and 133 teachers in training.

DONNEILAN LECTURER (on Relativity)—F. C. Burkitt, D.D.

INTERCHANGE of a French lecturer with an English lecturer effected with Montpellier. Six graduates obtained educational posts abroad, viz. in S. Africa, Australia, Canada, Nigeria, Singapore, France.

DEATHS. R. A. P. Rogers, Fellow, Tutor, and Donegal Lectr., Hon. Prof. W. Beatty, J. A. Jennings. **RETIREMENT** W. E. Lilly, Lectr. in Mech. Eng.

VACATION COURSES were held in French and in Education.

THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H M THE KING

CHANCELLOR—EAMON DE VALERA, B A , B Sc

VICE-CHANCELLOR—PATRICK J MERRIMAN, M A President, Univ Coll ,
Cork—*until* Dec 31, 1924

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV COLLS , DUBLIN
AND GALWAY, AND ST PATRICK'S COLL , MAYNOOTH

REPRESENTATIVES IN THE DAIL—M HAYES, M A , P M'GILLIGAN,
M A , W MAGENNIS, M A

REGISTRAR (ACTING)—FRED H WIBER, 49 Merrion Square, Dublin

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and
Galway

RECOGNIZED COLLEGE St Patrick's College, Maynooth

PROFESSORS AND LECTURERS, January 1, 1924

Prof. of Catholic Theology—

Staffs of the Univ Colleges, *v infra*

Recognized Teachers in approved degree courses in St Patrick's
College, Maynooth (President—Rt Rev Monsignor MacCaffrey, Ph D)
Classics—J F D'Alton, M A , D D , D Litt , T Fahy, M A , J
Greally, B A *Eastern Languages*—P Boylan, M A *English*—C
Mulcahy , P MacSweeney, M A *French and German*—J L Rigal,
M A *Irish*—G O'Nolan, M A , D Litt *Maths and Math Physcs*—
P J Browne, M A , D Sc *Expl Physcs*—P J Nolan, M Sc , Ph D ,
Mental and Moral Philos—M Forker, D Ph , P Coffey, D Ph ,
J O'Neill, D Ph *Music*— *Welsh*—P Walsh, M A

GENERAL INFORMATION

Queen's University in Ireland, founded in 1850, was replaced in 1880 by
the Royal University of Ireland, which was dissolved along with Queen's
College, Belfast, on Oct. 31, 1909. On this date the National University of
Ireland, Univ College, Dublin, and Queen's University of Belfast came into
being, and the Colleges previously known as Queen's at Cork and Galway
became with the new College at Dublin constituents of the N U I.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4)
Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce
Music is included in Arts and Celtic Studies. Classes are held in all Faculties
at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth

DEGREES B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B Sc ,

B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D., M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health, B.D.S., M.D.S., B.E., B.Arch., M.E., M.Arch., B.Comm., M.Comm., Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's

The M.Sc., M.Agr.Sc., D.Sc., B.Sc., Pub. Health, M.E., M.Arch., Ph.D. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others, certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent Colls.

FEES Matricn., £3. Combined examn and degree, £9 to £21. Diplomas £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs' (one in Medicine, 2 yrs') standing; one of £150 in Mental and Nervous Diseases, one of about £40, prize of £100 for Irish Historical Research.

PUBLICATION *Calendar* (July), 2s.

THE YEAR 1923 Degrees, etc., conferred B.A., 186 (including women—36), M.A., 20 (w—4), D.Litt., 1, B.Sc., 28 (w—12), M.Sc., 12 (w—2), LL.B., 3, M.B., 137 (w—31), M.Ch., 2, B.D.S., 8 (w—1), B.E., 33, B.Com., 46 (w—28), B.Mus., 1, B.Agr.Sc., 2, D.Sc., 1, Ph.D., 1, D.P.H., 12 (w—5), Dip.Ed., 31 (w—4), Higher Dip.Ed., 41 (w—23)

UNIVERSITY COLLEGE, DUBLIN

VISITOR—H M THE KING

PRESIDENT—D J COFFEY, M A , M B , B Ch , B A O , LL D.

REGISTRAR—Prof A W CONWAY, M A , D Sc , F R S

SECRETARY AND BURSAR—J W BACON, M A

LIBRARIAN—J J O'NEILL

PROFESSORS AND LECTURERS OF THE UNIVERSITY, January 1, 1924

<i>Accountancy</i>		<i>Education</i>	[Prof.
O'Connor, D , A C A .	Lectr	Corcoran, T , S J , B A , D Litt	
<i>Agriculture</i>		<i>Engineering, Civil</i>	
Drew, J P , A R C Sc I	Prof	Purcell, P F ., M A , M A I	Prof
<i>Anatomy</i>		<i>English Lang and Philology</i>	
M'Loughlin, E P , B A , M B , B Ch , B A O	Prof	O'Neill, G , S J , M A .	Prof
<i>Archæology, Celtic</i>	[Prof	<i>English Literature</i>	
Macalister, R A S , M A , Litt D		Donovan, R , B A	Prof
<i>Architecture</i>		<i>French and Romance Philol</i>	
....	Prof	Chauviré, R , D ès L	Prof
<i>Banking and Finance</i>		<i>Geology</i>	
Leet, F L , LL D	Lectr	Seymour, H J , B A , B Sc	Prof
<i>Botany</i>		<i>German</i>	
Butler, J B , M A , M B , B Ch , B A O	Prof	Macken, Mrs , M A	Prof
<i>Chemistry</i>		<i>Histology, v Physiology</i>	
Ryan, H , M A , D Sc	Prof	<i>History</i>	[Prof
<i>Classics</i>		O'Sullivan, J M , M A , Ph D	
Tierney, M ., M A (Greek)	Prof	<i>History, Early, including</i>	
Simple, P , M A (Latin)	Prof	<i>Mediæval Irish</i>	
<i>Commerce</i>		MacNeill, J , B A , D.Litt.	Prof
Shields, B F , M A .	Prot	<i>History, Modern Irish</i>	
<i>Dental Mechanics</i>		Hayden, Mary T , M A	Prof.
Potter, J I , L D S	Prof	<i>History, Municipal</i>	
<i>Dental Surgery</i>	[Prof	Webb, J. J , M A , LL D	
Sheridan, E . L D S , F R C S I		Dub Corpn	Lectr.
<i>Economics, National, of Ireland</i>		<i>Irish, Early and Mediæval</i>	
Oldham, C. H ., B A .	Prof	Bergin, O , B A , Ph D	Prof.
		<i>Irish Lang and Lit , Modern</i>	
		Hyde, D ., LL.D , D Litt	Prof.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses Arts or Comm—14 gs ; Science—£20 to £25 , Engin—£20 to £23 , Law (in addition to Arts)—8 gs ; Med (including Coll Hospl), whole period—£165

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science, 5 of £60.

RESIDENCE Hostels for men and for women Students are subject to supervision by Deans of residence

PUBLICATION *Calendar*, Sept , 2s.

THE YEAR 1922-23 *Degrees* obtained B A , 83 (including women—17) , M.A , 12 (w —3) ; B Com , 14 (w —8) , B Sc , 28 (w —7) , M Sc , 9 , D Sc , 1 , LL B , 3 , M B , 78 (w —11) , B E , 19 ; B Agr Sc , 2. *Students* graduates, 64 (women—28) , full-time undergraduates, 1183 (w —301) , part-time, 24 (w —4) , occasional, 7 (w —3) Total, 1278 (w —336)

UNIVERSITY COLLEGE, CORK

VISITOR—H M THE KING

PRESIDENT—P J MERRIMAN, M A

REGISTRAR—A O'RAHILLY, M A , B Sc , Ph D

SECRETARY AND BURSAR—J DOWNEY

LIBRARIAN—J FAWCETT, M A

PROFESSORS AND LECTURERS OF THE UNIVERSITY,

January 1, 1924

Accounting
MacCarthy, C P , M Comm Lectr
i Demr

Agriculture
Boyle, C , M A , B Sc , Ph D Prof
Grimes, M , M Sc , Ph D
Asst (Bacteriology)

Anatomy
Fitzgerald, D P , B A , M B ,
B Ch , B A O Prof
O'Connor, W F , M B , B Ch ,
B A O , F R C S I Asst
5 Demrs

Archæology
Power, P , M R I A Prof

Architecture
Hill, H. H , B.A. Lectr

Biology
Quinlan, Christina, M Sc Asst
i Demr

Botany [Prof
Cummins, Maj H A , M D , C M G

Chemistry
Dixon, A E , M D Dub Prof
Taylor, John, D Sc Asst
Kennedy, R , M Sc Asst
Conroy, T A , M A , H Dip Ed
Asst

Classics
Treston, H J , M A Prof
Porter, W H , M A Dub Lectr.

Dental Materia Med
Cantillon, E V . M B , B.Ch.,
B.A.O. Asst

Dental Mechanics
Sheedy, G , L D S Lectr

Dental Surgery
Hackett, J R , M B , B Ch ,
B A O , L D S Lectr

Economics and Commerce
Busteed, J , B Com Prof

Education, Methods of
O'Sullivan, Eliz M , M A Prof

Education, History of
M'Sweeney, E P Lectr

Electrical Technology
Belas, P E , B A , M Sc Lectr

Engineering, Civil
Walsh, H N , M E Prof
Coffey, Patrick, B E Asst
i Demr

English [Prof
Stockley, W F P , M A Dub

French
Aherne, Catherine, B A Asst

Geology and Geography
Swain, I , B A Prof.

German
Curran, Mary, M A Prof.

History
Hogan, J , M A Prof

Irish Lang and Lit
O'Donoghue, T Prof
O'Donoghue, E. Lectr

<i>Irish Music</i>			
..	Prof.		
<i>Law</i>			
Dunlea, W J, LL D (Contracts, etc)	Prof		
Moloney, H J, B.L (Real Property)	Prof		
<i>Mathematics</i>			
Conran, M J, M A, D.Sc.	Prof		
<i>Mathematical Physics</i>	[Prof		
O'Rahilly, A, M A, B Sc, Ph D			
O'Donoghue, T, M A, D Sc.	Asst		
<i>Medicine and Surgery, v infra</i>			
<i>Music</i>			
Lacy, F St J, F R A M.	Prof		
<i>Philosophy</i>	[Prof		
Fitzgibbon, T E, B A, Ph D.			
Stokes, G J, M A Dub. (P and Jurispr)	Prof		
Callaghan, Rev John, M A	Asst		
<i>Physics, v also Maths</i>			
Bergin, W, M A Dub	Prof		
<i>Physiology</i>			
Barry, D T, M D, D Sc, D P H, F R C S	Prof		
O'Donovan, J M, M Sc, M B	Asst		
i Demr			
<i>Romance Languages, v also French</i>			
Ryan, Mary, M A	Prof		
<i>Spanish</i>			
Cooke, W C	Lectr		
<i>Zoology and Embryology</i>			
Renouf, Louis P. W., B A, Dip Agric	Prof		
<i>Medicine (for subjects of first 2 yrs — Anat., etc., v. supra)</i>			
<i>Hygiene</i>	[Prof		
Donovan, D D, L R C P and S E			
<i>Materia Med</i>			
Dundon, J, M B, B Ch, B A O, F R C S	Prof		
<i>Medical Jurisprudence</i>			
O'Sullivan, P T, M D, B Ch, B A O	Prof		
<i>Medicine</i>			
..	Prof		
<i>Mental Diseases</i>			
McCarthy, O F, M B, B Ch, B A O	Lectr		
<i>Midwifery</i>			
Corby, H, B A, M D, M Ch	Prof		
<i>Ophth and Otology</i>			
Sandford, A W., M D, M Ch Dub	Prof		
<i>Pathology</i>	[Prof		
Moore, A E, M B, B Ch, B A O			
Enright, Margt A, M B, B Ch., B A O, D P H	Asst		
<i>Surgery</i>			
Pearson, C Y, M D, M Ch, F R C S	Prof		
Pearson, C B, M D, M Ch, B Sc	Asst		

GENERAL INFORMATION (v. also p. 291)

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908

LIBRARY: 70,000 vols, including the d'Arbois Jubainville collection of Celtic works **MUSEUMS** Archæol, Ethnol, Geol, Mineral, Nat Hist, Med

LABORATORIES Agr, Biol, Chem, Engin (Testing, 200,000-lb machine, and Hydraulics), Geol, Physics, Medical School. **BOTANICAL GARDENS.** **OBSERVATORY** with 8" equatorial and 11" photo telescopes, seismograph, and 4" siderostat

Complete COURSES provided for all degrees and diplomas of the Univ, except 2 years in the B Sc Agric course. Students are also prepared for the exams of the Univ of London.

Commerce students can do 6 mos' practical work in railway or accountants' offices, etc. Courses in Engin (Mech, Elec, Chem, Workshop Practice, Design, and Drawing) at the Municipal Tech Sch qualify for the B E degree

FEES for tuition, including College fee Arts, £36 10s to £41 10s, Science, £55, Engin, £63, Med, £145, including Hospl fees, Dentistry £160 5s, including Hospl fees, Music, £35

RESIDENCE Hostel for men (charitable trust, R.C only), students are supervised by Officers of Residence.

PUBLICATION *Calendar* (Sept), 1s

THE YEAR 1922-23 Number of students, 613, including 170 women

UNIVERSITY COLLEGE, GALWAY

VISITOR—H M THE KING

PRESIDENT—ALEXANDER ANDERSON, M A Camb, D Sc, LL D

REGISTRAR AND SECRETARY—Rev. J HYNES, M A, B D

LIBRARIAN—Prof HOWLEY

BURSAR—Prof WALSH

PROFESSORS AND LECTURERS OF THE UNIVERSITY, January 1, 1924

Anatomy
Shea, S, M B, B Ch, B A O Prof
i Demr

Archæology, Celtic
Hynes, J, M A, B D Lectr

Chemistry
Dillon, T, M A, D Sc Prof
Clarke, Miss R, B A, D Sc Demr

Classics, Ancient [Prof
M'Elderry, R. K, M A Camb

Economics, Commerce, & Acctcy
M'Bryan, F, M A, H Dip Ed Prof.

Education
O'Kelly, T, M A, B D Prof

Engineering, Civil
Rishworth, F S, B E, B A, A M I C E Prof
O'Connor, H G, M E, A M I C E I Asst

Engineering, Electrical
Griffith, W G, B Sc Lond, A M I E E, M I C E I Prof

English Language and Lit
Byrne, W A, M A Prof

Geology and Mineralogy
Mitchell, J, B Sc, B E Prof

German
Cooke, Miss M M, M A Prof.

History (Special Reference to Irish H) [Prof
Donovan O'Sullivan, Mrs, M A

Irish Lang, Philol, and Lit
O'Maille, T, M A Manc, Ph D
Frei. Prof

Irish, Modern
Mac Enri, S P, M A, M D Lectr

Law and Jurisprudence
.... Prof

Mathematics
Power, M, M A, B Sc Prof
Mitchell, J, B Sc, B E. Asst

Medicine and Surgery [Prof
Colahan, N. W, M D., M Ch
(Fevers, Materia M, etc)
Mahon, R B, M D, M Ch,
F.R.C.S.E (Practice of M) Prof

English, Adeline, M B, B Ch,
B A O (Mental Diseases) Lectr

Kinkead, R J, B A, M D Dub
(Obst and Gynæc) Prof
Mac Enri, S P, M A, M D Dub,
B Ch (Ophth and Ot) Prof
Walsh, T, M A, H Dip Ed, B Sc,
M D, D P H (Path) Prof
Brereton, W W, L R C S I,
M R C P. I (Practice of S) Prof

Lectrs in Med Jur & Hygiene
Profs Kinkead and Walsh
Assts in Surg, Obst and
Gynæc and Pharmacy

O'Malley, M G, M B., F.R.C.S.E.

Morris, D V, M B, M A.O.

Waters, J. J., M B

Natural History

Mangan, J, M A, F.R.C.Sc.I [Prof

Clarke, Miss H, M Sc Asst

Philosophy

Howley, J. F W, M A Prof

Physics

The President

McHenry, J J., M Sc

Physiology

Donegan, J. F, M B, B Sc. Prof.

Romance Languages

O'Brien, L, M A

Prof

Asst

Prof.

GENERAL INFORMATION (v. also p. 291)

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908

LIBRARY 50,000 vols **LABORATORIES** Physics, Chem, Biol, Physiol, Path, Geol, Engin **MUSEUMS** Nat Hist, Mat Med, Gynæc, Anat Dept

DEGREE COURSES in Arts, Celtic, Science, Law, Med, Engin, Commerce Courses for Diplomas in Educn, Irish Studies, Commerce, and Public Health

Med degree students are required to spend 1 yr at a Metropolitan Hospil after a 4 yrs' course in the College and 2 yrs in the Galway Hospitals.

FEES. College, £2 (women, £1) Degree courses (approximately) Arts, £26; Science, £30 to £45, Law, £12, Medicine (including 2 years General Hospital fees), £78, Engineering, £46, Commerce, £26 Post-graduate or research course, £5.

SCHOLARSHIPS open to students of the Coll on graduation 4 of £40.

RESIDENCE The cost of board and lodging for a student varies from 26s to 30s. a week Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt, who exercises supervision over their conduct within the precincts of the College

PUBLICATIONS College *Handbook* and list of licensed lodging-houses, free, *Calendar* (post free, 1s 4d), Regns for Degrees and Courses (6d), Regns for Scholps. and Diploma in Educn (3d), from O'Gorman and Co, Galway, Univ. Examn. Papers (post free, 1s 8d), from Supervisor of Exams, Univ Coll

THE YEAR 1922-23 *Degrees*, etc, obtained B A, 10 (including women—5), M A, 1, B Sc, 2 (w—1), B E, 2, M B, 9 (w—3), Higher Dip Ed, 11 (w—4) *Students* graduates, 22 (including women—9), undergrads, full-time, 169 (w.—48), part-time, 9 (w—2)

COLLEGE OF SCIENCE FOR IRELAND, DUBLIN

DEAN—F E HACKETT, M A , M Sc , Ph D

ACTING REGISTRAR—M QUANE

PROFESSORS, LECTURERS, ETC., January 1, 1924

[Associates of the College marked *]

<i>Agriculture</i> , v also For , Hort , Vet		*Warwick, F W , B A , B E Demr
Wilson, J , M A , B Sc	Prof	*Cormack, P , F R C Sc I Demr.
<i>Agric Botany</i>		<i>English and Education</i>
*Gorman, M J	Lectr	Williams, W J , M A Lectr
<i>Agric Chemistry</i>		<i>Forestry</i> [Prof
Stephenson, G	Lectr	Henry, A , M.A , F L S , M R I A
<i>Agric Econs , Bookkeeping, etc</i>		<i>Geology</i> [Prof
*Cole, R D	Lectr	Cole, G A J , F R S , M R I A
<i>Bacteriology</i>		*Levingston, H G. Demr
Denham, C H , B A , M B	Lectr	<i>Horticulture</i>
<i>Botany</i>		*Sherrard, G. O Lectr
Johnson, T , D Sc , F L S ,	Prof	<i>Mathematics</i> [Prof
M R I A		Orr, W McF , M A , D Sc , F R S
*O'Connor, P , B Sc	Demr	Johnston, J P , M A , Sc D Lectr
<i>Chemistry</i>		<i>Physics and Elec Engineering</i>
.	Prof	Hackett, F E , M A , M Sc ,
<i>Chemistry, Organic</i>		Ph D. Prof.
O'Farrelly, A , M A , F I C	Lectr	*Allen, R G , B Sc , A M I E E
<i>Chem , Phys and Metall</i> [Lectr		Lectr
*Leonard, A G G , B Sc , Ph D.		*O'Callaghan, P Demr
<i>Engineering</i> , v. also Physics		<i>Veterinary Hygiene</i>
.....	Prof	Mason, F. C , M R C V S Lectr
*Taylor, J , M A Acting Prof		<i>Zoology</i>
	
	

GENERAL INFORMATION

The College is housed in new buildings, and the LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, e.g. extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop, examples of types of engines aggregating 700 H P. Hydraulics

and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons
Elect. Engin Labs with D C and A C machines Extensive Physics, Agric ,
and Nat Sc equipment LIBRARY with 50,000 Scientific and Tech. books,
10,000 pamphlets, numerous maps, etc

The Regular COURSES extend over 4 yrs leading to the *Associateship* of the College in Agric (4 groups), Applied Chem , Engin , Science Teachers' courses (Tech , Expl Sc , Nat Sc , Rural Sc)

The *Fellowship* of the College may be awarded to any Associate of at least 3 yrs' standing who (1) submits a satisfactory thesis embodying results of original scientific research or investigation or treating critically some branch of Science, or (2) has contributed in a marked degree to the advancement of Science.

Several valuable *Scholarships* are attached to the College, and a number of *Research Studentships* are available

Short *Summer Courses* are held in the College in Science subjects by the Dept. of Agric and Tech Instruction for Ireland

THE YEAR 1922-23 During the session 1922-23 the College building was temporarily closed to students, and classes were, in consequence, conducted in buildings belonging to the N U I and Dept of Agric and Tech Instruction

Students, 290 *Diplomas* of Associateship, 58 , *Fellowship*, 3

CANADIAN UNIVERSITIES

In *Nova Scotia* · ACADIA, DALHOUSIE, KING'S COLLEGE, ST FRANCIS XAVIER In *New Brunswick* NEW BRUNSWICK, MOUNT ALLISON In *Quebec* . BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL In *Ontario* MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN. *Western Provincial Univs* . MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA

GENERAL DESCRIPTION

[Contributed by A Stanley Mackenzie, Ph D , D C L , President of Dalhousie Univ , President for 1920 of the Conference of Canadian Univs An account by President Walter C Murray of the Univ of Saskatchewan, of " University Development in Canada " is to be found in the Transactions of the Royal Society of Canada, Third Series, 1922, vol xvi]

It is probably not true to say that Canada has evolved a distinctive type of Univ , and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States One might divide Canadian Univs into groups, determined by the prototype after which each was consciously or unconsciously modelled In the first group are those which followed closely the Oxford tradition — King's, New Brunswick, Bishop's, Toronto, and some of its federated colleges (University, Trinity, Wycliffe) The Univs in the second group are those which modelled themselves on Edinburgh, viz Dalhousie, McGill, Queen's Laval in Quebec, Laval in Montreal (which has lately changed its name to that of the Univ of Montreal), and Ottawa have followed closely the forms and tradition of France The four western provincial Univs of Manitoba, Saskatchewan, Alberta, and British Columbia, and especially the three last, bear a close resemblance to the State Univs of the United States The Univs which have not been named are perhaps more free from direct imitation of older types

As the years have gone by, all these institutions, while maintaining individuality and evidences of their original form, have tended to uniformity in many important regards Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science Again, they have a common standard of preliminary education for admission to the course leading to these degrees This standard is that attained by a satisfactory completion of three years of a High School course superimposed on eight years in the common schools This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes

which have a fourth year course give in that year about the same work as is done in the first year of the Univ course for the Pass degree.

JUNIOR MATRICULATION Students can satisfy the Entrance requirements of the Univs either by examination or on certificate from a standard High School or accredited Preparatory School or Collegiate Institute or School. Such certificate is, however, not accepted as such, but considered subject by subject, that is, it must show a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ to another. Practically all Univs require for candidates for the B A degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ a seventh subject, it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B Sc the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science, or Engineering, but the best schools of Applied Science require in addition to the requirements (1) to (4) of Arts, Advanced Algebra, Advanced Geometry, Trigonometry, Physics, Chemistry, and at least one foreign language.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. At least a year has been added to the length of the course at each Univ. In general the course of study requires 6 years. In Toronto Univ these must be taken in the Medical School. In some of the other Univs the 1st year may be taken in any recognized Arts College, in others the first 2 years (which are largely pure science) may be so taken. The grade of scholarship required as preliminary to this 6-year course at all the Schools is that of Senior Matric, except at Queen's, where it is Junior Matric, and at Montreal Univ, where it is the B-ès-A.

There has been a similar advancement going on in the standard of preliminary education required of students seeking admission to the study of Law. At all the Schools the Law course proper extends over 3 years. Dalhousie and Manitoba require 2 years of Arts before admission to this course, the other Law Schools require, in general, the equivalent of one year of Arts.

A year has been added to the standard of preliminary education required of students entering upon the study of Dentistry. It is now the equivalent of the first year of an Arts course. The Toronto School is raising this to 2 years, and this standard may soon become general.

ARTS COURSE Speaking very generally, one can say that about one-half of the course for the degree of B A is prescribed and the other half elective, but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin.

(British Columbia requires only one), Philosophy, Mathematics, and Science. In the case of the B Sc degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the B A degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs the Honour classes are confined to the third and fourth years of the course, in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree With Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degrees in Arts and a professional faculty in a year less than the sum of the years required for each.

LENGTH OF SESSION. The Canadian Univs open about October 1, and close in May or early in June. The average length of the session is $32\frac{1}{2}$ weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the $32\frac{1}{2}$ weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES. During the last two years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax, and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that

of Toronto It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ, the Carnegie Corporation of New York would give the scheme very generous aid Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of \$3,000,000 At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ of New Brunswick (non-sectarian), St Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) has moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ (non-sectarian) The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity) King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ conducts all exams and grants degrees Provided King's raises the sum of \$400,000 within two years for the erection of the necessary residential buildings, the Carnegie Corporation will provide \$600,000 to be used as an endowment for the payment of an instructional staff for the combined students There the matter stands at present Mount Allison College (Methodist) will not come to a decision until the proposed union of the Methodist, Presbyterian, and Congregational bodies in Canada is consummated The Roman Catholic dioceses outside of that of Antigonish, in which is St Francis Xavier's College, have the matter under consideration There is no degree-granting educational institution in the adjoining colony of Newfoundland, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada, and will undoubtedly co-operate

NINTH CONFERENCE OF CANADIAN UNIVERSITIES, 1923 The subjects discussed were (a) The Relations of the regularly organized Univs to certain Colleges dealing with extension work and dealing in a more or less formal manner with regular instruction (b) "University Co-operation in Serving Their Combined Constituencies" (paper by President Murray of Univ of Sask) (c) "University Maintenance" (President Tory of Alberta) (d) "Sectionalism in Universities" (Dean Laing of McGill) (e) "Graduate Work in Canada" (Dean Adams of McGill) (f) "Graduate Work in Agriculture" (Principal Harrison of MacDonald College, Univ of Toronto) (g) "Agricultural Research" (Dr J H Grisdale of the Research Dept in Agr, Ottawa) (j) "University Co-operation in Scientific and Industrial Research" (President Mackenzie of Dalhousie) (k) "Dental Education in Canada" (Dr Wallace Secombe of the Royal College of Dentistry, Toronto) (l) "Relation of the Royal Military College to the Universities" (Principal Sir Arthur Currie of McGill) (m) "Oriental Students in Canadian Universities" (Committee's Report) (n) "Athletics in Canadian Universities" (Dean DeLury of Toronto) (o) "Engineering Education" (Prof Clarke of Queen's) (p) "Medical Education" (Dean Prowse of Manitoba)

Officers for 1923-24 President—Principal Bruce Taylor, Queen's.
Secretary Treasurer—Dr G H Ling, Saskatchewan

DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont), St John's (Winnipeg), Emmanuel (Saskatoon), St Chad's (Regina), Anglican Theol Coll of BC

In the case of a College within the "Province of Canada" (a group of dioceses in Eastern Canada) which has not the power to confer degrees the Metropolitan, or a representative of the College acting for him, confers the degrees [*Contributed by the Bishop of Ottawa*]

NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX

This institution represents the principal effort of the province in University training It is supported entirely from provincial revenues Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years is carried out entirely in the Univs of Acadia, Dalhousie, King's, Mount Allison, St Francis Xavier, and St Mary's College On successful completion of this course, the student proceeds to the Technical College without examn for the professional work of the last 2 of the 4 yrs' course Here the studies are differentiated and the student elects either Civ, Elcc, Mech, or Mining Engineering The degree given is that of B Sc The Technical Coll confines its attention entirely to the work of the jun and sen yrs It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research Tuition fees \$75 p a The buildings and equipment represent a provincial investment of about \$500,000 [*Contributed by the Department of Technical Educn, N S*]

THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING

The object of the Foundation is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education" Its 17th Annual Report, dated Oct 1922, stated that the following classes of persons are eligible for retiring allowances (1) A person in an institution on the associated list who (a) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof and instr, or (b) has served 25 years as prof or 30 years as instr or as prof. and instr, and who is shown by medical examn to be entirely unfitted by disability for continuing the work of teacher, (2) a widow who has for 10 years been the wife of any teacher of class (a) or (b). The offices of the Foundation are at 522 Fifth Avenue, New York City

The list of associated institutions includes DALHOUSIE, MCGILL, QUEEN'S, and TORONTO Up to June 1922, 1020 allowances had been granted, including 50 in Canada and 3 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. The Annual Reports include discussions of various questions connected with teaching institutions. Separate bulletins have been published on Financial Reports of Colleges, Univs., and Tech. Schools, Medical, Engineering, Legal, and other vocational education; the Training of Teachers; Teachers' Pensions; Higher Education in the *Maritime Provinces of Canada*.

In Oct. and Nov. 1922 two experts commissioned by the Foundation—Dr. Learned of its own staff and President Sills of Bowdoin College—visited the maritime provinces of eastern Canada with the view of suggesting a constructive policy in regard to the universities which had applied to it for aid. The commissioners reported in favour of bringing together into a single univ. at Halifax, which would include Dalhousie as one of its colleges, the other five univs. The cost of the scheme is estimated at $4\frac{1}{2}$ million dollars.

NATIONAL COUNCIL OF EDUCATION

THE NATIONAL COUNCIL OF EDUCATION, Winnipeg, formed at a conference on Education in relation to Citizenship in 1919, has developed, with the co-operation of Univs. and Departments of Education a Bureau of Education, and is organizing, with the approval of the Univs., a series of National Lectureships under the title of a National "Extension University." It holds triennial Conferences on Education, the last of which was held at Toronto in April 1923. The General Secretary's address is 11 Kennedy Street, Winnipeg.

CANADIAN STUDENTS IN THE UNIVERSITIES OF THE UNITED KINGDOM, v. Appendix XXII

SCIENTIFIC AND INDUSTRIAL RESEARCH, v. Appendix XXIV

ACADIA UNIVERSITY, WOLFFVILLE, NOVA SCOTIA

PRESIDENT—F W PATTERSON, D D , LL D

CHAIRMAN OF THE BOARD OF GOVERNORS—J W MANNING, D D.

REGISTRAR—Prof A B BALCOM, B Sc , M A

BURSAR—CLARA CHISHOLM

LIBRARIAN—MARY K INGRAHAM, M A

PROFESSORS, LECTURERS, ETC., September 1923

Biology [C F Myers Prof
Perry, H G , M A Harv

Chemistry
Hill, D U , M A , Ph D Yale Prof
Oxner, Miss B , B A Sask Instr

Classics
Thompson, W H , jun , M A ,
Ph D Yale Barss Prof

Economic Science [Prof
Balcom, A B , B Sc , M A Harv

Education & Psychology [Instr
Kellog, C E , M A , Ph D Harv

Engineering [I Curry Prof
Wheelock, F E , M A , Ph D Yale
Sutherland, A , B Sc Prof

English Lang and Lit
Rhodenizer, V. B , M A , Ph D
Harv Prof
Logan, J D , Ph D Harv
Spl Lectr in Canadian Lit.

Geology
Bancroft, M. F , M A Yale Prof

German
Ross, Roy, M A Yale Prof

History
Rogers, N M'L , B A , B Litt ,
B C L (Ox) M Curry Prof

Library Science [Instr
Ingraham, Mary Kinley, M.A.

Mathematics [White Prof
Jeffery, R L , M A Cornell

New Test Lang and Lit
De Wolfe, H T , B A , D D Prof.

Old Test Lang and Lit
Hutchins, W N , M A , Ph D.
Chic G P Payzant Prof.

Osteology and Physiology
De Witt, C E A , B A , M D
McGill Instr

Physical Training [Director.
Osborne, W T , M A Corn

Physics [Alumni Prof
Haley, F R , M A Harv
Wheelock, F E , B A , Ph D.
Yale I Curry Prof.

Romance Languages
Ramsey, G , B A
Dartmouth Prof.

Theology and Philosophy [Prof
Spidle, S , B D , Ph.D Clark
MacDonald, J H , C.B E , D D.
Prof of Church Hist and
Bible Lit

GENERAL INFORMATION (v. also p. 303).

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University. In 1896 an endowment of \$100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

LIBRARY 45,000 vols **MUSEUMS** Biol, Ethnol, Geol., Hist **LABORATORIES** Biol, Chem, Geol, Physics, Engineering **OBSERVATORY** Meteor. and Astron

DEPARTMENTS Arts and Sciences, Theology, Applied Science, Music

DEGREE COURSES 4 yrs —B A, B A (Theol), B Sc, 3 yrs —B Mus, 1 yr (graduate study)—M A, B D. The B Sc Engineering courses enable graduates to enter the 3rd year classes of McGill Univ and N S Tech Coll. Some of the B A and B Sc courses enable graduates to enter the 2nd yr of the Dalhousie Law School, Halifax, and the Med Dept of McGill Univ respectively (v pp 307, 327, 341).

OTHER COURSES Applied Sc (2 yrs), covering same ground as Unified course at McGill and the N S Tech Coll, and giving admission to the 3rd yr courses therein (v p 307).

FEES for tuition in Arts and Sc or Theol, \$306, in Appl Sc (2 yrs), \$220. Lab fees extra, about \$30.

RESIDENCE College hostels provide accommodation for 70 men and 65 women.

AFFILIATION, v p 341

PUBLICATIONS *Bulletin*, 25 cents p a, *Calendar*, number issued in July

THE YEAR 1922-23

HONORARY DEGREES CONFERRED D D —Rev H G Mellick, Rev H Y Corey, LL D —Mrs J W de B Farris, W C Milner, M S Read, D Litt —Miss A M MacLean

OTHER DEGREES M A, 5, B A, 31, B Sc, 8 **STUDENTS** preparing for B A, 179, B Sc, 44, Theological, 17, Applied Sc, 24, Special, 14, graduates, 5. Total, 293

UNIVERSITY OF ALBERTA

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE

CHANCELLOR—HON CHARLES ALLAN STUART, B A , LL D Tor

CHAIRMAN OF BOARD OF GOVERNORS—HON H HARVEY, M A , LL B.
LL D , Chief Justice

PRESIDENT—HENRY MARSHALL TORY, M A , D Sc , LL D. McG.

REGISTRAR—C E RACE, M A , C A

LIBRARIAN—D E CAMERON, M A Edin

PROFESSORS, LECTURERS, ETC., November 21, 1923

Accountancy
Race, C E , B A Tor , M A , C A
Lectr

Agricultural Engineering [Prof
Smith, J MacG , B S A Man

Agriculture Field Husbandry
Cutler, G H , B S A Tor Prof
Newton, R , B S A Tor
Asst Prof
Fryer, J R , M A Tor
Asst Prof

Agriculture, History of
Harcourt, G , B S A Tor Lectr

Agriculture Soils
Wyatt, F A , B S A Utah, M S ,
Ph D Ill Prof
Newton, J D , B S A McG ,
Ph D Calif Asst Prof

Animal Husbandry, v also
Dairying and Vet
Sackville, J P , B S A Tor Prof
Rowstead, J E , M S A Wisc
Asst Prof
Sinclair, R D , B S A Asst Prof

Anatomy [Prof
Revell, D G , B A , M B Tor
Shaner, R F , Ph D Harv
Assoc Prof
Greene, E , M D , C M McG
Lectr

1 Instr and 7 Demrs

Architecture
Burgess, C S , A R I B A Prof
Bacteriology, v. Med

Bio-Chemistry [Prof.
Collip, J B , M A , Ph D Tor
Scott, J W , M D McG Lectr.

Botany [Prof
Lewis, F J , D Sc Liv , F.L S
Moss, E H , M A Tor Lectr
1 Demr.

Chemistry
Lehmann, A L F , B S A. Tor ,
Ph D Leip Prof
Walker, O J , B A Sask , M A.
Harv , Ph D McG. Asst Prof
Bridgeman, O C , M A Sask
Lectr
Oddy, H G , M A McM , Ph D
Tor Instr
9 Demrs

Classics
Alexander, W H , M A Tor ,
Ph D Calif Prof
Misener, Geneva, M A Qu , Ph D.
Chic Assoc Prof
Hardy, W G , M A Tor , Ph D
Chic Asst Prof
Laycock, S R , B A Tor , M.A ,
B D , B Educ Instr.

Dairying
Marker, C P. Prof

Dentistry [Lectr (Op D)
 Bulvea, H E, D M D Harv
 Gilchrist, H A, D D S Northwn
 Lectr (Prosth D)

Drawing & Descr Geom
 Adam, J, M A Assoc Prof

Economics, v Pol Econ

Engineering, Civil & Municipal
 Wilson, R S L, B Sc McG Prof
 Robb, C A, B Sc McG, M S
 Mass Inst Tech Prof
 Morrison, I F, S B M I T Prof
 Webb, H R, M Sc Lectr

Engineering, Electrical
 MacLeod, H J, B Sc McG, Ph D
 Harv, M Sc Assoc Prof
 Morgan, S C, B.Sc Qu, M Sc
 Lectr

English
 Broadus, E K, M A Chic, Ph D
 Harv Prof
 Gordon, R K, B A Ox, M A.
 Ph D Tor Prof
 Salter, F M, B A Dal, A M
 Chic Lectr
 Jones, J T, B A Instr

Entomology [Prof
 Strickland, E H, M Sc Harv

French and Ger, v Mod Langs

Geology
 Allan, J. A., M Sc McG, Ph D
 Mass Inst. Tech Prof
 Warren, P S, B A. Tor, A R C S
 Lond Lectr
 i Demr

History [Prof.
 Burt, A L, B A Tor, M A Ox
 Long, M H, B A Ox
 Assoc Prof

Household Economics
 Patrick, Mabel, B A Tor Lectr
 Deadman, Edith, B A Tor Lectr

Law, v p 316

Mathematics
 Sheldon, E W, M A McG, Ph D
 Yale Prof

Campbell, J W, M A Qu, Ph D
 Chic Assoc Prof
 Mitchell, Mrs E T, M Sc Instr
 Young, F G, B A Instr

Medicine, v infra

Mining Engineering.
 Pitcher, N C, B Sc McG Prof
 Cameron, A E, M Sc McG
 Assoc Prof

Modern Languages
 Kerr, W A R, M A Tor, Ph D
 Harv
 Prof and Dean of Fac
 (Arts and Sc)

Coar, J F, M A, Ph D Harv
 Prof (German)
 Sonet, E, B ès L Lyons
 Assoc Prof (French)
 Pelluet, A P Asst Prof (French).
 Owen, F, M A Tor Lectr (Ger)
 de Savoye, H, B ès L Paris, LL B
 Lectr (French)

Philosophy
 MacEachran, J M, M A Qu,
 Ph D Leip Prof
 MacDonald, J, M A Edin
 Asst Prof
 MacPhee, E D, M A, Ed B
 Edin Asst Prof

Physics [Prof
 Boyle, R W, M A, Ph D McG
 Smith, S, M A, B Sc Ox
 Assoc Prof and Dean of
 Fac (App Sc)
 Nichols, L H, B A McG Lectr
 Lang, R J, B A McM, Ph D
 Tor Lectr
 2 Demrs

Physiology and Pharmacology
 Downs, A W, M A Phila, M D
 Penns, D Sc McG Prof
 Eddy, N. B, M D Corn
 Asst Prof
 Bell, I R, B A, M B Tor Lectr
 i Demr

Political Economy
 MacGibbon, D A, M A McM,
 Ph D Chic Prof.

McGoun, A. F., B.A., B.C.L. McG,
M.A. Harv Asst Prof

Veterinary Science

Talbot, P. R., V.S. Tor, M.D.V.
Chic Specl Lectr

Zoology

[Assoc Prof
Rowan, W., M.Sc. Lond, F.Z.S.
Harkness, W. J. K., B.A. Tor
Instr

Medicine (for subjects of first
2 yrs—Anat., etc., v *supra*)

Bacteriology and Hygiene

Rankin, A. C., C.M.G., M.D.,
C.M., D.P.H. McG, L.R.C.P.,
M.R.C.S. (Dean of Fac) Prof
Shaw, R. M., B.A., M.D., C.M.,
D.P.H. McG Asst Prof
Laidlaw, W. C., M.B. Tor Lectr
Orr, H., O.B.E., M.B., D.P.H.
Tor Instr
1 Demr

Medicine and Clinical Medicine

Pope, E. L., B.A. Qu, M.D., C.M.
McG, M.R.C.S., M.R.C.P.

Prof
Logie, H. B., B.A., M.D., C.M.
McG Asst Prof

Jamieson, H. C., M.B. Tor Lectr
Hurlburt, C. W., M.B. Tor Lectr
Conn, L. C., M.D., C.M. McG

Prof (*Gynaecology*)
Harrison, J. D., M.A. N.B., M.D.,
C.M. McG. Assoc Prof

Baker, J. O., M.D., C.M. Qu
Lectr (*Obstet*)

1 Instr

Ophthalmology

Wells, R. B., M.B. Tor Lectr
Jamieson, C. V., M.B. Tor Lectr.

Pathology

Ower, J. J., B.A., M.D., C.M.
McG, Prof., and Provincial
Serologist

2 Demrs

Pediatrics

[Lectr.
Leitch, D. B., B.A., M.B. Tor

Pharmacology, v Physiol

Pharmacy and Mat Med [Prof

Dunn, F. A. S., Ph.C. Tor, M.P.S.
Gr Bn

Asst Prof and Acting
Dir of Sch of Phm

Matthews, A. W., B.Sc. Phm.
Lectr

Surgery and Clinical Surgery

Mewburn, F. H., M.D., C.M.,
LL.D. McG Prof

Gray, G. C., M.B. Tor Asst Prof
Munroe, A. R., M.D., C.M. McG

Asst Prof
Wilson, W. A., M.D., C.M. McG

Asst Prof
Blais, A., M.D. Tor Asst Prof.

Hepburn, H. H., M.D., C.M. McG
Asst Prof

Mewburn, F. H. H., B.Sc., M.D.
C.M. McG Lectr (*Orthop*)

Smith, E. C., M.D., C.M. McG
Lectr

6 Instrs

Industrial Laboratories

Kelso, J. A., M.Sc. Qu Director
Scroggie, A. G., B.Sc. Asst.

Industrial Research Profs.

Stansfield, E., M.Sc. Manc
(Fuels).

Clark, K. A., M.A. McM, Ph.D.
Ill (Road Materials)

Physical Education

McLeod, H. J. Acting Director.
Bakewell, E., B.A. Asst Dir

Correspondence Courses

MacKenzie, D. S. Director.

Department of Extension

Ottewell, A. E., M.A. Director.
Corbett, E. A., M.A. McG Secy.

Montgomery, Jessie, B.A. Libn.
Patton, H. S., B.A. Tor, M.A.

Harv Lectr. in Pol Econ.

AFFILIATED COLLEGES

(1) ALBERTA THEOLOGICAL COLLEGE (Methodist), Edmonton. Chairman of Board of Governors, H B Smith, M D , Secy, C E Race, B A , C A Principal—A. S Tuttle, M A., D D Mt All, Prof of Philos. of Religion. Other Profs . A D Miller, M A. Tor, B D Vict , Hebrew, etc. ; Cloy Jackson, M A Tor, B D Vict , New Test Lit Five Lectrs Situated on Univ. grounds , quarters for 125 students

(2) ROBERTSON THEOLOGICAL COLLEGE (Presbyterian), Edmonton Chairman of Board of Management—W Short, K C Principal—J M Millar, M A , B D , D D , Prof of Engl Bible, etc Head of Extra-mural Dept and Lectr.—A T. Barnard, M A , B D

(3) ST. AIDAN'S COLLEGE and Hostel (C. of E), Edmonton—affiliated, 1919 Warden—Rt Rev. Bishop Gray

(1) and (2) co-operate, Profs of both instructing joint classes.

GENERAL INFORMATION (v. also p. 303)

Telegraphic address—VERA (A.B C Code)

The University, created by act of the Provincial Legislature, 1906, originally consisted of a Chancellor, Vice-Chancellor, Senate, and Convocation By amendment the office of President was created 1907, and a Board of Governors 1910, the latter being given financial and administrative control, while the Senate was restricted to educational supervision Student residences, Athabasca, Assiniboia, and Pembina Halls, were opened in 1911, 1912, and 1914 respectively, while the main teaching and administrative building was completed in 1915 Classes began September 1908 In 1912 extension work, conducted from the beginning, was departmentalized under a Secretary In the same year a Faculty of Law was created Subsequent expansion involved the establishment of Faculties of Applied Science and of Medicine, 1913 , Faculty of Agriculture, 1915 , courses in Pharmacy and in Dentistry, 1914 and 1917 respectively , in Household Economics, 1918 , in Commerce and in Public Health Nursing, 1921 In 1919-20 the extraordinary increase in the number of medical students necessitated the construction of a new Medical Building In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Department under the Faculty of Medicine to an independent unit The Provincial Legislature has established a close relationship between the Univ and the Professions, and the Senate now has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons

The University grounds, 637 acres, beautifully situated on the wooded south bank of the Saskatchewan, include provision for the accommodation of affiliated colleges and afford ample room for expansion Edmonton is a city of about 60,000 inhabitants, the capital of the Province of Alberta (area 250,000 sq m. , pop. 600,000) The chief activities of the city are wholesaling, coal-mining, and meat-packing, while the main interests of the Province are agriculture and coal-mining For 2000 miles to the north of Edmonton, and naturally tributary to it, lie the valleys of the Athabasca, the Peace, and the Mackenzie Rivers The fur trade is still the chief activity of this vast region, though on the Peace River a rapid agricultural growth is in progress,

and its great resources in coal, oil, water-power, natural gas, lumber, asphalt, etc., await development.

LIBRARY, 25,000 vols **LABORATORIES** for all scientific courses, museum, herbarium; farm, agricultural experimental plots.

FACULTIES Arts and Sciences (including Household Economics, Pharmacy and Commerce); Applied Science (including Architecture); Medicine (including Dentistry and Nursing), Law, Agriculture

MATRICULATION exams are conducted in April, June, and Sept., under control of High School and Univ. Matricn Exams Board of the Province. Equivalent exams by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

DEGREE COURSES 4 yrs—B A, B Sc in Arts, B Com, B Sc in Household Ec, in Engin. (Civ, Elec, or Mining), in Archt, or in Pharmacy, LL B., D.D.S. (first 2 yrs. provided here, after which students are admitted to McG., or Tor without further examn for completion of course), 3 yrs. (after qualifying in a Provincial Sch of Agr)—B H Ec (in Household Econ), B Sc in Agric, 6 yrs—M D, 5 yrs—B Sc. in Nursing Combined B A and B Sc in Arts—6 yrs, B A and B Sc in Applied Sc—6 yrs., B A and M D—8 yrs, B A and LL B—6 yrs (v also pp 95, 256, 341). The Agric course is preceded by preliminary training at one of the Provincial Agric Schools.

A Bachelor may obtain the M A or M Sc by 1 yr of advanced study or investigation or the B Ed by 2 yrs of advanced study. The B D is open to B A students of affiliated Colls. on completion of approved courses. The LL D is honorary.

OTHER COURSES For Licence in Pharmacy, Correspondence Courses for Teachers (Senr Matricn subjects), Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept of Educn, 3 mos' course in P H Nursing for Registered nurses, Provincial Dairy School short courses.

A system of **EXCHANGE LECTURES** is carried on in co-operation with Manit and Sask.

FEES, tuition per session Arts (including 4 yrs' degree courses in Pharm., Com. and Household Econ.), \$50, Appl. Sc, \$85 to \$100, Law, \$60, Med. and Dent, \$150 (1st yr, \$110), Acctcy, \$25 and \$50, Agric (including 3 yrs' course in Household Econ), \$40. Students' Union, \$7, Med Service, \$3.

RESIDENCE, ETC 4 Halls of residence (including 1 belonging to an affiliated Coll), with accommodation for 525. Fees for room and board for the session, \$280, board only, \$28 per month. Social life is under supervision of Provost, a Univ officer. All undergraduates are members of Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, travelling and packet libraries, and lantern slide and cinema services.

PUBLICATIONS. *Calendar* (June), *Press Bulletin*, weekly, by Dept of Extension, *The Trail*, quarterly, by Alumni Assocn, *The Gateway*, weekly, by students.

THE YEAR 1922-23

BENEFACTIONS The Coté Prize (books) and the Wells Prize (\$50), both in French, Bursary of 7000 francs, gift of the French Government for study in France, a Berliet Aero Engine (value \$4000) from the Air Board, scholar-

ship, \$500 from W. C. Macdonald for graduate study in Agr at Macdonald College; prize, \$100 from Assocn. of Professional Engineers for a student in Mech. Eng , Prizes in Law (\$20, \$30, \$50) from Carswell Compy , Ltd

NEW POST Prof of Medicine.

OTHER DEVELOPMENTS Completion of new wing of Univ Hospital, extensive renovation of whole building and organization of complete medical, surgical, and special technical services

EXTENSION WORK Lantern slides sent out, 1631, films, 281 series, lectures, 398, travelling libraries, 232, university week for Farm Young People

DEGREES B A, 42, LL B, 10, B Sc in Arts, 11, in Phm, 5, in App Sc, 10, in Agric, 12, M A, 11, M Sc, 2, Dip Phm, 14

STUDENTS. Total, 1314 (in 1921-22 there were 1285, including 389 women). Arts and Sc, 696, App Sc, 101, Med and Dent, 190, Law, 120, Agr, 139, Phm, 61, Correspondence students, 131, summer school, 55

Continued from p 312]

Law

Weir, J A, B A, LL B Sask Assoc Prof

Klevin, V E, B A, LL B Sask Asst Prof

3 Sessional Lectrs

UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

[No returns since 1922.]

CHANCELLOR—JOHN HAMILTON, M A , D C L

VICE-CHANCELLOR—Rev A H MCGREER, O B E , M A Tor , B.A. Ox ,
Principal of the College and Dean of Arts

REGISTRAR—Capt J. C STEWART, Bursar and Secy of the College.

PROFESSORS AND LECTURERS, September 1922

Smith, Rocksborough R , M A Camb , B A Lond , Harold Prof of
Divinity, Dean of Divinity

Boothroyd, E E , M A Camb , Prof of History and English Literature.
Burt, H C , M A , T C Tor , Prof of Philos and Econ , Lectr in
Church Hist

Call, F O , M A , Prof of Mod Langs , and Librarian

Hatcher, A G , M A McGill, Prof of Natural Science

Rae, W A , M A Tor , Hamilton Prof of Classics

Richardson, A V , M A Camb , Prof of Maths

Vial, F G , M A , B D , Warden of the Divinity House, Mountain Prof.
of Past Theol

GENERAL INFORMATION (v. also pp. 303, 307)

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B A degree, covering 3 yrs , and a 2 yrs ' course for the L S T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs may be counted up to 2 yrs. Clergymen of the Dioceses of Quebec and Montreal may proceed to the B A by examns. without residence if of 6 yrs ' standing, and on a reduced period (1 or 2 yrs) if of 4 or 2 yrs. ' standing

Examns are conducted for degrees in Music

FEES For tuition, \$100 p a , board and furnished lodging with heating and lighting, \$300 p a

THE YEAR 1921-22 *Number of Students* Divinity, 12 ; Arts, 63 (including 20 women). *Degrees conferred* B.A., 15 ; M.A., 4 ; Mus.Bac , 1 ; L.S.T , 2. Hon. D C L.—The Bishop of Huron ; F. H. Gisborne.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

VISITOR—THE LIEUT-GOVERNOR OF THE PROVINCE

CHANCELLOR—R E McKECHNIE, M D , C M , F A C S , L L D

PRESIDENT—LEONARD S KLINCK, B S A Tor , M S A , D Sc Iowa S C

REGISTRAR—S W MATHEWS, M A Qu

LIBRARIAN—J RIDINGTON

PROFESSORS, LECTURERS, ETC., October 22, 1923

Agriculture, v infra

Bacteriology

Mullin, R H , B A , M B Tor [Prof *
(also Prof* of *Public Health*)
Wilson, Freda L , M A Instr
i Asst

Botany

Hutchinson, A H , M A McM ,
Ph D Chic Prof *
Davidson, J , F L S Asst Prof
Dickson, Frank, B A Qu
Asst Prof

6 Assts

Chemistry

Archibald, E H , B Sc Dal , A M ,
Ph D Harv Prof *
Clark, R H , M A Tor , Ph D
Leip. Prof (Organic C)
Seyer, W F , B A , M Sc Alb ,
Ph D McG Assoc Prof
Marshall, M J , M Sc McG , Ph D
Mass Inst Tech Asst Prof
Allardyce, J , M A Instr
8 Assts

Classics

Robertson, L F , M A McG [Prof *
Todd, O J , Ph D Harv
Prof of Greek
Logan, H T , B A McG , M A
Ox Assoc Prof
i Asst.

Dairying, v Agric

Economics, Sociology, & Polit Sc

Boggs, T H , B A Ac , M A ,
Ph D Yale Prof *
Angus, H F , B A McG , B C L ,
M A Ox Assoc Prof
Beckett, S E , M A Qu
Asst Prof
i Asst

Engineering, Civil, & Surveying

Duckering, W E , A B , B S in
C E , C F Wash Prof *
Matheson, E G , B A Sc McG ,
M E I C , M A M S C E
Assoc Prof
Powell, W H , B Sc McG Lectr
Lighthall, A , B Sc McG Instr
Wilkin, F A , B A Sc McG Instr
i Asst

Engineering, Mech & Elec

Ryan, C C , M Sc McG
Assoc Prof of M E
Letson, H F G , B Sc , Ph D
(Eng) Lond Asst Prof
Archibald, H P , B A Sc McG
Instr
Walkem, G , B Sc McG
Special Lectr
Coles, E M , B A Sc Instr
7 Assts

* Head of Department.

English

Sedgewick, G. G., B A. Dal , Ph D
Harv Prof *
MacDonald, W L , B A Tor , M A
Wisc, Ph D Harv Assoc Prof
Wood, F G C , B A McG , A M
Harv Asst Prof
Larsen, Thorleif, M A Tor , B A
Ox Asst Prof
Walker, F C , B A U.N B , Ph D
Harv Asst Prof
Bollert, Miss M L , M A Tor ,
A M Col † Asst Prof
3 Assts

Forestry

[Prof *]
Christie, H R , B Sc F Tor
Knapp, F M , B S F Syracuse,
M S F Wash Asst Prof

*French, v Mod Langs**Geology and Geography*

Brock, R W , M A , LL D Qu ,
F G S † Prof *
Schofield, S J , B Sc Qu , Ph D
Mass Inst Tech Prof
Ugnow, W L , M A Qu , B Sc
Sch M Kingston, M S ,
Ph.D Wisc
Prof of Mineralogy, etc
Williams, M Y , B.Sc Qu , Ph D
Yale Prof of Palæont
Burwash, E M , B A Tor , M A ,
B D Vict , Ph D Tor and
Chic Lectr

History

[Prof *]
Eastman, M., B A Tor , Ph D Col
Sage, W N , B A Tor , M A Ox
Assoc Prof
Soward, F H , B A Tor , B Litt
Ox Instr

*Horticulture, v Agr**Mathematics*

Buchanan, D , M A McM , Ph D
Chic. Prof *
Robinson, G E , B A. Dal
Assoc Prof.

Richardson, L , B Sc Lond
Asst Prof
Jordan, E E , M A Dal
Asst. Prof.
Hartley, B S , M A Camb
Asst Prof

4 Assts

Mining and Metallurgy

Turnbull, J M , B A Sc McG
Prof *
Thomson, H N , B Sc McG
Prof of Met
Gillies, G A , M Sc McG
Assoc Prof of Mi

Modern Languages

Ashton, H , M A Camb , D Lett
Univ Paris, D Litt Birm ,
O I P Prof of French *
Clark, A F B , B A Tor , Ph D
Harv Assoc Prof (French)
MacInnes, Isabel, M A Qu
Asst Prof
Grojean, G , L ès L et en Dr
Toul, O d'A France
Asst Prof
Ross, Margaret Instr (French)
Greig, Janet, B A Qu
Instr (French)

4 Assts in French

1 Asst in German

Nursing

Johns, Miss E I , R N Asst Prof.

Philosophy

Coleman, H T J , B A Tor ,
Ph D Col † Prof *
Henderson, J , M A Glas
Assoc Prof

Physics

Hebb, T C , M A , B Sc Dal ,
Ph D Chic Prof *
Davidson, J G , B A Tor , Ph D
Calif Assoc Prof
Henning, A E , M A Lake
Forest Coll , Ill , Ph D Chic
Assoc Prof

* Head of Department

† Dean of Faculty.

‡ Dean of Women.

<i>Public Health</i> , v. Bacteriology	Jervis, J G, V S Ont Vet. Col, B V Sc Tor
<i>Zoology</i>	Lectr in Vet Sc
Fraser, C McL, M A Tor, Ph D.	
Iowa	Prof *
Dunlop, H A, B A.	Instr
1 Asst	
Agriculture	
<i>Agronomy</i>	
Boving, P A, Cand Phil and Agr (Sweden)	Prof *
Moe, G. G, B S A, M Sc McG	Assoc Prof
1 Extension Asst	
3 other Assts	
<i>Animal Husbandry</i>	
King, H M, B S A Tor	
	Assoc Prof
Davis, R L, B S A Mont,	
M S A Iowa S C	Asst Prof
Jones, Walter N, B S A McG,	
M S A I S C	Asst Prof
1 Extension Asst.	
	Jervis, J G, V S Ont Vet. Col, B V Sc Tor
	Lectr in Vet Sc
	<i>Dairying</i>
	Sadler, W, B S A, M Sc McG, N D.D (Reading)
	Prof *
	Golding, N. S, N D D, B S A. Tor
	Asst Prof
	1 Extension Asst
	<i>Horticulture</i>
	Clement, F M, B S A Tor, M A Wisc †
	Prof *
	Barss, A F, A B Roch, B S Agr Corn, M S Oreg Ag Coll
	Assoc Prof
	Buck, F. E., B S A McG.
	Asst Prof
	1 Extension Asst
	<i>Poultry Husbandry</i> [Assoc Prof.
	Lloyd, E A, B S A Sask
	Asmundson, V S, B S A Sask, M S A Corn
	Asst Prof
	1 Extension Asst

* Head of Department.

† Dean of Faculty.

AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria Affiliated, 1920, for 1st and 2nd years in Arts Principal—E B Paul, M A Aberd, Assoc Prof of *Classics* Other Profs — E. H Russell, B A. Qu, *Maths*, P H Elliot, M Sc McG, *Science*, Jeanette A. Cann, B L Dal, *Engl* and *Philos*, Mme. E Sanderson-Mongin, *French*

WESTMINSTER HALL, Vancouver (Theological)—W. H Smith, M A, Ph D, D D, and THE ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—Rev W. H Vance, M A, both affiliated in 1922

GENERAL INFORMATION (v. also p. 303)

Telegraphic Address—UBRICO

An Act of the Provincial Legislature was passed in 1890 establishing a University of British Columbia, but it lapsed in 1891 Vancouver High School was affiliated to McGill for the first year in Arts under the name of Vancouver College in 1899 In 1902 Victoria High School was similarly affiliated as Victoria College. In 1906 the Royal Institution for the Advancement of Learning of B C was incorporated and established, the McGill Univ Coll of B.C, taking over, by agreement, the Arts work of Vancouver College (extended in 1908 to include the 3rd yr in Arts), and adding 2 yrs of Applied Science. In 1907 Victoria College was incorporated in the Univ Coll The connexion with McGill was brought to a close in 1915, when the University of British Columbia, incorporated by an Act of 1908, and endowed with 2,000,000 acres of land, was opened, with provision for a complete course in Arts and 3 yrs in

Applied Science In 1920, all lands in the Province which had been set aside for higher education reverted to the Provincial Government, but it was arranged that the net proceeds from the sale of lots or lands in an area of 3000 acres at Point Grey should be paid into a "University Endowment Account."

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut -Govr in Council. The Senate consists of the Minister of Educn, Chancellor, President (as Chairman), Deans, and 2 Profs of each Faculty, 3 nominees of the Lieut -Govr in Council, Supt. of Educn, principals of normal schools, one member elected by high school principals and assts, one by Provl Teachers' Inst, one by each affiliated Coll. or School in the Province, 15 by Convocation.

The University site consists of 540 acres on the headland of Point Grey, 300 feet above the sea. The Science building now under construction will cost \$715,000. The LIBRARY has 47,000 vols and over 10,000 pamphlets, and regularly receives 400 periodicals. LABORATORIES available for all courses. A Forest Products Lab. (with two Olsen Universal Testing Machines of 200,000 and 30,000 lb. capacity respectively and one Hatt-Turner Impact Testing Machine) was established in 1918 by the Forestry branch of the Dept of the Interior as a permanent branch of the F.P. Labs of Canada. HERBARIUM, 16,000 sheets native flora, 200 water colours. B.C. FUNGI. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

Students are ADMITTED as (1) undergraduates, by Matricn. examn. or its equivalent, (2) conditioned undergraduates, with a view to completing matricn. requirements during first year, (3) partial students. Every student is submitted to a physical examn. on entrance.

DEGREE COURSES. B.A., 4 yrs (3 from Senior matricn.) B.A.Sc. in Applied Science, 4 yrs (following 1st yr in Arts or Senr matricn.). A degree course in nursing covers 5 yrs, including 2 yrs. of hospl training. B.S.A., 4 yrs from Junr matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A. SHORT COURSES in Mining, 8 weeks, Jan.-March; in Agric. at the Univ. and elsewhere. Evening courses, with summer excursions, in Botany. Summer courses.

SUMMER SESSION In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn standing may pursue Univ. courses and receive credit therefor towards the B.A. degree. As yet courses beyond those of the first two years are not offered.

FEES, inclusive, \$75-100 per session. Graduation, \$20.

SCHOLARSHIPS FOR GRADUATES. \$200 awardable to graduate for further studies, two of \$100, one being for Applied Science.

RESIDENCE Board and lodging in vicinity of the College from \$40 to \$50 p m.

UNIVERSITY EXTENSION Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

PUBLICATION *Calendar* (April).

THE YEAR 1922-23

BENEFACTIONS. Alice Ravenhill, library on sanitation, hygiene, and child welfare valued at \$2500. Provincial Government grant for maintenance, \$445,000

NEW BUILDINGS were in process of erection at the Point Grey site, and will probably be ready for occupation by Oct* 1924. The Science Building and Library will be of permanent construction, and will cost \$715,000 and \$340,000 respectively. Temporary buildings for Administration, Arts, and Science, Applied Science, Horticulture, and the Auditorium and Gymnasium will cost \$600,000. Government decided to move the Univ to Point Grey as soon as the necessary buildings, etc, can be completed.

NEW POSTS Prof of Education (in the Dept of Philos), provision made for Asst Profs in the Depts of Botany, Maths, and Forestry. The new Chair of Civ Eng was filled by appointment of Prof Duckering from the Iowa State College

CHANGES IN REGULATIONS, ETC. Tuition fees in Arts and Science and in Agr were raised from \$50 to \$75 per session, and in Applied Science from \$50 to \$100 per session (Nursing, \$75)

OTHER DEVELOPMENTS Fourth year work in Elec Eng and professional training for Univ graduates to qualify as teachers in secondary schools are being offered for the first time this session

UNIVERSITY EXTENSION WORK 135 lectures on 121 topics of general interest; 220 addresses by members of the Faculty of Agriculture. Extension schools (Agricultural) of 4 days' duration were offered at 8 places. *Summer Session, 1923* Enrolment, 293

DEGREES B A, 106 (including women—60), B.A Sc, 37 (w—3 in Nursing), B S A, 12, M A, 14 (w—8), M A Sc, 6, M S A, 1

STUDENTS Total, 1194 (including women—477) Arts and Sc, 856 (w—431), App Sc, 212 (w—28 in Nursing), Agr, 77 (w—5). Graduates, Arts and Sc, 34 (w—13), App Sc, 7, Agr, 8

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—GEORGE S CAMPBELL,
LL D.

PRESIDENT OF THE UNIVERSITY—A STANLEY MACKENZIE, Ph D.,
D C L, LL D

REGISTRAR—Prof M MACNEILL, M A

LIBRARIAN—Prof A MACMECHAN

PROFESSORS, LECTURERS, ETC, October 20, 1923

Accounting, v Com

Anatomy
Cameron, J, M D Edin, D Sc
St And, M R C S
Campbell Prof

Dentrs

Holland, C W, B A, M D, C M
Curry, W A, M D, C M McG,
F R C S Eng
Grant, G W, M B Edin, B A

Archæology

Falconer, J W, M A Edin, D D
Knox Lectr

Biblical Literature [Lectr

Kent, H A, D D Mont, M A

Biology

Gowanloch, J N, B A, B Sc
Man Assoc Prof
Bell, H P, Ph D Tor, M Sc
Assoc Prof
Macdonald, Mona, M Sc Asst

Chemistry

McIntosh, D, A M Corn, D Sc
McG
Research Prof and Head
of Dept

Nickerson, C B, M A Clark Prof
King, H S, A B Harv Asst Prof.
Todd, E W, B A Instr
McCurdy, Margaret F, B A Asst

Classics

Murray, H, B A Lond, LL D
Tor McLeod Prof
Nichols, E W, Ph D Yale
Assoc Prof
Griffin, A K, M A Tor, B A Ox
Asst Prof
Logan, J W, M A Lectr

Commerce

Hunt, B C, B B A Boston Prof
Wallace, Judge W B, LL D
Lectr (*Comm Law*)

Dentistry, v infra

Economics

[Lectr
Maxwell, W R, M A Harv

Engineering, Civil

Copp, W P, B A Ac, B Sc
McG Prof
Theakston, H R, B Sc (M) N S
T C Tech Asst

English Lang and Lit

MacMechan, A, B A Tor, Ph D
J H U, LL D Tor
Munro Prof
MacFarlane, W D, Ph D Gott
Prof

Bennet, C L, B A Camb.
Asst. Prof

Geology

[Asst Prof.
McIntosh, D S, M Sc. McG, B.A.

History [Assoc Prof
Wilson, G. E., M A Qu
Walker, A S., M A Leeds and
Birm Prof

Law, v infra

Mathematics
Macneill, M., M A Harv Prof.
Murray, F. A., A M, Ph D Harv
Asst Prof

Medicine and Surgery, v infra

Modern Languages
Jones, H P., B A Vind, Ph D
Heid McLeod Prof
Mercer, C H., M A, B Com
Manc Asst Prof.
Scott, R W., A M Prince
Assoc Prof
Lowe, E Margaret Lectr

Philosophy [Munro Prof
Stewart, H L., M A R U I and
Ox, Ph D R U I
Symons, R J., M A Ox
Assoc Prof (*Psychol*)

Physics [Munro Prof
Bronson, H L., B A, Ph D Yale
Johnstone, J H L., Ph D Yale,
M Sc Prof
Colpitt, Merle P., M A. Instr
Kenty, C., B A
MacGregor Fellow

I Fellow

Physiology and Histology
Harris, D Fraser, C M, M D
Glas, B Sc Lond, D Sc
Birm Prof
Bean, R J., M S N H.
Assoc Prof (*Hist & Embry*)

McLaren, P D., M D, C M Demr
Low, Margaret Demr

Political Science, Government and
Munro, H F., M A Harv
Dennis Prof.

Law, v also Com

Agency
MacDonald, V C., LL B Lectr

Constit. and Internat L
MacRae, D A., A M, Ph D Corn,
B A † Munro Prof

Contracts
Russell, Hon Benjamin, M A,
D C L Mt All * Prof

Contracts, Const Hist, etc.
Smith, S E., M A King's, LL B
Instr
[Lectr.
O'Hearn, W J., LL B, K C

Domestic Relations
Robertson, T R., B A, LL B,
K C Lectr

Domimon Statutes [Lectr
Yeoman, R F., B A, LL B

Evidence, etc
Jenks, S., LL B, K C Lectr

Insurance [Lectr
Stewart, J McG., B A, LL B

Mortgages and Suretyship
Murphy, T W., LL B, K C
Lectr

Partnership
Bell, F H., B A, K C Lectr

Prac Statutes and Interpn
Macdonald, A L., B A St F X,
LL B Lectr

Procedure and Property [Prof
Read, J E., B C L Ox, B A

Shipping [Lectr
Burchell, C J., M A, LL B, K C.

Statutes [Lectr *
Mathers, F F., LL B, K C

Medicine (for subjects of the first
2 yrs—Anat, etc, v *supra*)

Anæsthetics
Lessel, J. F., M D, C M Demr
Muir, W L., M D, C M McG
Demr

Bact, v Path. and Skin Dis

Diseases of the Eye, etc
Mathers, R. E., M D N Y. Lectr.

* Judge, Supreme Court. † Judge, County Court. ‡ Dean of Faculty.

*Gynæcology, v Obst.**Hygiene and Public Health*

Prof Hattie (v Ment) Prof
Jost, A. C., M D, C M McG.

Lectr
Chisholm, H A., M D, C M McG
Lectr

Materia Medica

Burbidge, G A., M N S Phm.
Soc. Demr.

Medical Jurispr

Churchill, J L., M D, C M McG
Lectr

*Medicine and Clin Med, v. also
Ped and Skin*

Silver, L M., B A Vind, M B,
C M Edin Prof.

MacKenzie, K A., M D, C M
Assoc Prof.

Grant, H G., M D, C M, M R C S,
L R C P Lond Lectr

Sieniewicz, T D., M D, C M „

Johnston, S. R., M D, C M Lectr

Hoare, D W., M D, C M. Demr

Mental Diseases [Prof

Hattie, W H., M D, C M McG

Lawlor, F E., M D, C M. McG
Demr

*Obst and Dis of Women and
Children*

Almon, W. B., M D, C M (Obst)
Assoc Prof

Atlee, H B., M D, C M, F. R C S
Edin

Assoc Prof and Head of

Gynæc Dept

Macdonald, P A., M D, C M.

McG (Practical O) Demr

MacLellan, E K., M D, C M

Assoc Prof

Morton, C S., M D Tor (Practical
O) Demr

Path. and Bacteriology

Nicholls, A G., M A, M D, C M,
D Sc McG Prof

MacKenzie, D J., M D, C M.

Instr

Lyons, J N., M D, C M.

Demr in B

Chase, Margaret R., B A Acad,
M.D, C M Tech Asst

Pediatrics and Medicine

Carney, M J., M D, C M McG,
B A Lectr

Skin Diseases and Medicine

Mack, F. G., M B, C M Tor
(Demr in Bact.) Lectr

Surgery and Clin Surg

Hogan, E V., M D, C M McG,
M R C S Eng, L. R C P

Lond

Prof and Head of Dept.

Murphy, G H., M D, C M (Cln
S) Assoc Prof

McDonald, H K., M D, C M

McG. (Cln) Prof

Stewart, J., M B, C M, LL D

Edin (Surg)* Prof

Weatherbe, P, M B, Ch B. Edin

(Op Surg) Assoc Prof. & Demr.

McDougall, J G., M D, C M

McG. (Cln) Assoc Prof.

Thomas, L., M D, C M, M R C S.

Eng, L R C P Lond. (Pract.
Surg) Demr

Therapeutics [Lectr

Corston, J R., B A, M D, C M

*Dentistry**D Anatomy*

Ritchie, S G., B A. N.B., D M D

T D C Prof

Crown and Bridge Work, etc

Thomson, G K., D D S P D C

Prof

Oxner, W C., D. D S, B C D S

Lectr

Dentistry

Bagnall, J S., D D S Instr

Exodontia and Radiology [Lectr

Hennugar, G R., D D, B C D S.

<i>Genl and Oral Surg. and Anæsth</i>	<i>Orthodontia</i>
Woodbury, F V, M D, C M Dal, L R C S and L R C P Edin, L F P S Glas. Prof	Woodbury, W W, B.Sc, D D S P D C. Prof
<i>History, Ethics, and Jurispr</i>	<i>D Path and Therap</i>
Chudleigh, D G A, D D S, B C D S Lectr	Cogswell, A W, M D, C M Hfx., M C, D D S Penn Prof.
<i>Materna Medica</i>	<i>Prosthetic D</i>
Woodbury, K F, D D S Lectr	Woodbury, R H, D D S P D C Prof Lectr
<i>Operative D</i>	Fluck, G H, D D S P D C Lectr.
Ryan, F W, D D S. Mich Prof	Faulkner, A W, D D S Lectr
Beckwith W H H, D D S Penn Lectr	Gardner, O Asst Demr

AFFILIATED INSTITUTIONS, v. also p 329

PRESBYTERIAN COLLEGE, Halifax Classes and exams in Hebrew and in New Testament Greek at the College are recognized as qualifying for the B A Students may complete the Div course at the Coll and take the B.A in 6 yrs

PRINCE OF WALES COLLEGE, Charlottetown, P E I Students holding certain certifs of the Coll are admitted to the 1st, 2nd, or 3rd yr of the B A course

HALIFAX CONSERVATORY OF MUSIC Courses recognized for Mus B and Lic Mus

MARITIME COLLEGE OF PHARMACY Courses recognized for B Phm

MOUNT ST VINCENT ACADEMY Recognized for Advanced Standing in 1st and 2nd years in Arts

GENERAL INFORMATION (v. also p. 303)

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ powers, but was closed in 1845 for want of sufficient funds. In 1863 it was reorganized and opened with a staff of 6 Professors. In 1877 the Faculty of Science was organized, and from 1879 development proceeded rapidly with the help of the benefactions of George Munro of New York (\$350,000), Alexr McLeod of Halifax (\$65,000), and Sir Wm Young (\$88,000). The Faculty of Law was established in 1883, the School of Mines in 1902. In 1911 the Halifax Medical College, into which the Faculty of Medicine (organized in 1868) had been merged, was acquired by the Univ, and the College of Pharmacy was established with its co-operation. In 1912 the work of the Maritime Dental College was taken over by the Univ. In this year \$400,000 was collected for a new site (40 acres) and buildings, etc., towards which Andrew Carnegie gave \$40,000. Further benefactions amounting to \$200,000 were received in 1915-18.

In connexion with centenary celebrations in 1919 subscriptions amounting to \$2,250,000 were obtained. One million of this was for Medical teaching and \$300,000 for a Women's Residence.

Appointments to the Board of Governors are made by the Govr-in-Council

on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs

LIBRARIES 50,000 vols. and 10,000 pamphlets Access also to Science Library—61,000 vols and pamphlets, Legislative—24,000 vols., Theol—11,000, Law—18,000 **MUSEUMS** Ornith, Geol, Indian antiquities Access to Provincial Museum of Geol, Mineral, Zool **LABORATORIES** Chem, Physical, Geol, Engin, Biol

FACULTIES Arts and Science (including Commerce, Music, Pharmacy, and Engineering), Law, Medicine, Dentistry

MATRICULATION requirements are articulated to the High School system of the Province which covers the 4 last years of the Public School 12-year course The compulsory subjects for admission to the B A, Phm B, and LL B courses are (1) English, (2) Maths, (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem; B Sc or B Mus—(1), (2), (5), French, German, M D, C M, or D D S—(1), (2), (4), Latin, Brit Hist, Physics, Chem

The 4 Univs of the Province hold an annual conference on the subject of Matricn

DEGREE COURSES 4 yrs—B A, B Sc, B Com, D D S, 3 yrs—LL B, Mus B, 6 yrs—M D, C M (taken together), 1 yr (following 4 yrs' practical experience)—Phm B, the first 2 yrs of the Engin course (v p 307) A B A. of one of the Univs of N S or N Bruns who has taken Law subjects for part of his course may qualify for the LL B in 2 yrs The M D, C M, and D D S can be reached by concurrent courses in 7 yrs The M A or M Sc is given on successful completion of an approved 1-yr course of study by a B A or B Sc, respectively, of an approved Univ The course may be pursued by graduates of Dalhousie wholly or in part by private reading, attendance at the Univ being optional for them (v also pp 95, 248, 256, 257)

DIPLOMA course for the Lic Mus—2 yrs Music and Pharmacy courses are taken in the Affiliated Institutions, v *supra* A 6 mos' course of training for Pub Health work for trained nurses is provided

FEES For tuition, for each class (ex lab or draughting-room), \$18; lab or draughting-room class, \$23 Composition for tuition in Law, \$150 p a, Med or Dent, \$200 p a (first year, \$132)

SCHOLARSHIPS FOR GRADUATES. \$250 in Polit Sc for study in another Univ

RESIDENCE Hostel for 60 women students, erected at a cost of \$350,000. Dormitories are provided also for men students

LOAN FUNDS for students have been instituted

PUBLICATIONS *Calendar* (July), *Annual Report* (Sept), *Gazette*, \$1

THE YEAR 1922-23

NEW BUILDINGS, ETC Medical Science Lab, Women's Residence, and Out-patient Clinic completed, central heating plant under construction; total cost about a million dollars.

NEW POSTS Prof of Hygiene and Public Health, Research Prof. of Chemistry, Warden of Shirreff Hall (women's residence)

OTHER DEVELOPMENTS. Decision of King's College to move to Halifax, and to associate its work with that of Dalhousie.

DEGREES CONFERRED B.A , 45 (including women—22) , M A., 6 (w —3) ; B.Sc., 4 (w.—1) , M Sc., 2 (w.—1) , LL.B , 20 , M D , 20 (w —2) , D D S , 17 (w.—1) ; B Com , 3 (w.—1).

STUDENTS. Graduates, 5 ; full-time undergrads., 683 (including women —148) ; others, 55.

UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

Associated with Dalhousie University

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR—THE ARCHBISHOP OF NOVA SCOTIA.

CHANCELLOR—

VICE-CHANCELLOR AND PRESIDENT—T S BOYLE, M A , D D , D C L.

REGISTRAR—T H. HUNT, M A , D D

PROFESSORS AND LECTURERS, September 1923

<i>Classics</i>	[Lectr	Mason, E. M , B A .	Lectr.
Griffin, A K , M A Tor , B A Ox			
<i>Divinity</i>	[Senr Prof	<i>German</i>	
Vroom, Ven Archdeacon F W ,		Harley, H A , M A	Lectr
M A , D D , D C L			
Hunt, T. H , M A , D D		<i>History</i>	
Alexandra Prof		The President	Prof of H.
Paterson-Smyth, C , M A. Tor ,		Walker, A Stanley, B A Leeds,	
B D (Past Theol , etc.) Prof		M A Birm.	Assoc Prof.
Hiltz, R A , M A (Rel Educn ,		<i>Mathematics</i>	
etc) Prof		. . .	Prof.
<i>English</i>		<i>Modern Languages</i>	
MacFarlane, W D , M A. McG ,		. . . . .	Prof
Ph D Gott. Prof.		Miller, R A , M A .	Lectr.
Bennett, C R , M A Camb Lectr		<i>Philosophy and Ethics</i>	
<i>French</i>	[Assoc Prof	Symons, N. J , M.A. Ox.	
Walker, R Scott, M A Harv.		Assoc Prof	

GENERAL INFORMATION (v. also p. 303)

Postal Address—King's College, North West Arm, Halifax, N S

Opened in 1790 and established with full Univ. powers by Royal Charter in 1802. Removed in 1923 from Windsor to Halifax in pursuance of a scheme (financed by the Carnegie Corporation of New York) under which Applied Science and Engineering courses were discontinued. Governed by a Board of 26 members, of whom 16 are elected by Synods, 10 by Alumni. The Archbishop of Nova Scotia is Visitor and President of the Board. The Bishop of Fredericton is Vice-President.

A School of Law, established in St. John, N.B., in connexion with the College in 1892, is now affiliated with the Univ. of New Brunswick.

The College is *affiliated* with Oxford, Cambridge, and Dublin. V also p. 95.

Students from the *Jamaica Church Theological College* who, after a residence of 6 terms there, pass the required exams. in the subjects of the Divinity course at King's, may receive the diploma of L S T , and Divinity students who have completed the required residence at the Jamaica College, and have passed the necessary exams according to the requirements of King's, may be admitted to the degree of B A

THE YEAR 1922-23 The outstanding event of the year was the decision to remove to Halifax and become associated with Dalhousie Univ King's gives up her Applied Science and Engineering courses, and after a term of years her degree-conferring powers She retains her independence and autonomy in all other respects In consideration of this, the Carnegie Corporation has promised the College £125,000. The Divinity School is not affected by the arrangement

HONORARY DEGREES (D C L) conferred T S Boyle (Vice-Chancellor), A W M Harley, W H E Bullock

OTHER DEGREES B A , 21 , M A , 11 , B C L , 8 , B Sc , 2 , M Sc , 2

STUDENTS Arts and Sc , 86 , Div , 19 , Law , 26

LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—H E Cardinal L N. BÉGIN,
Archbishop of Quebec.

RECTOR—Mgr C. N GARIÉPY, D D, Sup of the Seminary of Quebec

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof O BERGERON,
M ès A

PROFESSORS, September 1923

<i>Anatomy, v Med</i>	
<i>Astronomy, Practical</i>	
Smith, A, M A (Dir of Quebec Observatory)	Prof
Simard, H, M A, D D	Prof
<i>Biology, v Med</i>	
<i>Chemistry</i>	
Fillion, Ph J, M ès A.	Prof.
<i>Chemistry, Analytical</i>	
Garneau, Sir G, B ès Sc Ap, Ing Civ, C L D'H	Prof
<i>Chemistry, Organic</i>	
Cardinaux, P, D ès Sc	Prof
Gunstenperger, J, D ès Sc	Asst Prof
<i>Classics</i>	
Pelletier, Mgr F, M A (Greek Lit)	Prof
Croissant, L, M A (Greek Lang)	Prof
Hébert, P, M A (Latin Lit)	Prof
LeBel, A, D ès Lettres (Latin Lit)	Prof
Levesque, R, M A (Latin Lit)	Prof
<i>Commerce, v Law</i>	
<i>Dentistry, v Med</i>	
<i>Economics, v Law and Soc</i>	
<i>Elocution</i>	
Rivard, A, M A, B en Dr, D ès L, K St Gr, K C	Prof
<i>English</i>	
Cannon, W, B A	Prof
<i>Entomology</i>	
Moheux, G, M A, Ing For	Prof
<i>Forestry</i>	
Piché, G. C, M A, Ing For	Prof.
Bédard, A, M A, Ing For	Prof
<i>Forest Law</i>	
Richard, L A, D en Dr	Prof
<i>French Language</i>	
Aubert, A.	Prof
<i>French Literature</i>	
Roy, C, L ès L, D Ph.	Prof
Gaillard du Champais, H., D ès L	Prof
Maheux, A, M A	Prof of Rhetoric
Laliberté, M, M A	Prof of Belles-Lettres
Morel, A, M A	Prof of Belles-Lettres.
<i>Geography</i>	
Garneau, A, M ès A	Prof
<i>Geology and Mineralogy</i>	
Vachon, A, M A, L Phil	Prof
<i>Histology, v Med</i>	
<i>History (General)</i>	
Chapais, Hon T, D L, C St Gr, C L D'H	Prof
Savard, G,	Prof
<i>History of the Church</i>	
Roy, G, L Ph, D D	Prof
<i>History of Canada and of the Church in Canada</i>	
Gosselin, Mgr, M A	Prof
Genest, O, B ès L	Prof

- Law, v. infra*
- Mathematics**
 Tremblay, A Prof.
 Mercil, A, M ès A, Ing Civ, B ès Sc Ap Prof
 Bergeron, O, M ès A. Prof.
- Medicine, v. infra*
- Music**
 Gagnon, G, Mus D Prof
 Lavigne, A, Mus D Prof
 Vezina, J, Mus D Prof
 Gilbert, J A, Mus D Prof.
- Pedagogy**
 Courchesne, G, D Th Prof
 Talbot, R Asst Prof
- Philosophy** [Prof
 Roy, G., B A, L Ph, L Dr, D Th.
 Robert, A, M A, L en Econ, D D Prof
- Physics**
 Simard, H, M. ès A, D Th Prof.
 Christen, A, D ès Sc Prof
- Physiology, v. Med.*
- Social and Political Econ**
 Gregoire, J E, LL L, L ès Sc S and P. Prof
- Surveying**
 Joncas, P, Ing Civ, B ès Sc Ap, M Can. Soc C E (Building and S) Prof.
- Theology, v. also Hist**
 Paquet, Mgr L. A, V.G, D Th, M St.T.A. Prof.
 Nadeau, E, D Th, L en Dr. Can Prof.
 Gariépy, C N, D Th. Prof.
 Gagnon, C, D Th. Prof.
 Foy, C, Lic en Ph, D Th Prof.
 Gignac, J, D Th, D en Dr Can (Canon Law) Prof.
 Grandbois, J. E, L en Ph, D Th (Holy Script and Orient Langs) Prof.
 Robert, A, M.A, D Th, D Ph, D St T A, L Sc Louv Prof
- Langlois, A, D en Phil et en Th Prof
- Zoology and Botany**
 Robitaille, A, M.A. Prof
- Law**
Admin, Const, and Munic L
 Sirois, J, D en Dr. Prof
- Civil L.**
 Dorion, Hon C. E, D en Dr, KC* Prof
 Roy, F, D en Dr, KC, O I P Prof
- Commerc and Marit. Law**
 Bernier, L M J A, D en Dr, KC Prof
 Marchand, Hon A, D en Dr, KC Prof
 Gravel, J, D en Dr, KC Prof
- Criminal L** [Prof
 Lachance, A, L en D, Judge
 Fitzpatrick, Hon. Sir Chas., G C M G., D. en Dr, P C C, Lt -Govr. Prof.
- History of L.**
 St Laurent, L., D en Dr. Prof.
- International L**
 Rivard, Hon A, M A, D. ès L, D en Dr, KC Prof.
- Municipal, L** [Prof
 Prévost, J A, D en Dr, KC
- Procedure, Civil**
 Poulot, A, D. en Dr. Prof
 Baillargeon, E, D en Dr, KC Prof
- Roman L.**
 Flynn, Hon E J, D en Dr* Prof
 Belleau, E, D en Dr, KC Prof.
 Desrivières, E, D en Dr Prof.
- Medicine**
Anatomy, Descr.
 Dagneau, C, M D. Prof
Anatomy, Pathological
 Vallée, A, M D (Dir of P A and Bact Labs) Prof.

<i>Anat and Oper. Med , Pract.</i>	Turcot, E., M.D.	Prof.
Pâquet, A , M.D.	Roy, S , M.D.	Prof.
<i>Biology</i>	<i>Ophthalmology</i>	
Vézina, C , M D	Pagé, J. D , M D.	Prof.
<i>Dentistry</i>	<i>Ophth and Ot Clin , etc.</i>	
Langlois, A , D Dent	Coote, P , M D	Prof.
Gaudreau, S , D Dent	<i>Pathology, Ext and Clin. Surg.</i>	
<i>Dermatology</i>	Simard, E T. A , M.D., O.I.P.	Prof.
Mayrand, R , M D		
<i>Gynæcology and Gyn Clin</i>	<i>Path., Genl and Clin. Med.</i>	
Grondin, S , M D , C L D'H , O I P.	Rousseau, A , M D , O A	Prof.
Caouette, J , M D	<i>Path , Internal</i>	
<i>Histology and Bact</i>	Brochu, M. D , M D , O I.P.	Prof
Potvin, R , M D	<i>Pediatrics, Hygiene, etc.</i>	
<i>Hygiene, Public</i>	Fortier, E R , M D	Prof.
Paquin, R , M D	Jobin, A , B A , M D	Prof
Couillard, E , M D	<i>Physiol and Clin Med.</i>	
<i>Laryngology</i>	Leclerc, O , M D.	Prof.
Fiset, L J N , M D	<i>Therapeutics</i>	
Dussault, N A , M D (Rhino-Lar , etc)	Guérard, J , M.D	Prof.
Vaillancourt, J , M D	Lessard, A , M D	Prof.
<i>Materna Medica</i>	<i>Toxicol , Leg Med , etc.</i>	
Faucher, P. V., M D	Marois, A , M D	Prof.

INSTITUTIONS ANNEXED OR AFFILIATED TO THE UNIVERSITY

["Annexion" implies absolute control by the Univ of the programmes of study and of the nomination of the staff "Affiliation" or—in the case of an institution outside the province of Quebec—"agrégation" involves control by the Univ of examinations.]

ÉCOLE D'ARPENTAGE ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and annexed to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 11 other Profs.

ÉCOLE AGRICOLE DE STE ANNE DE LA POCATIÈRE, affiliated. Director, Prof N Pelletier 12 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE Annexed to the Faculty of Arts. Director, Prof P. Cardinaux. 7 other Profs.

ÉCOLE NORMALE SUPÉRIEURE Annexed to the Faculty of Arts. Director, Prof F Pelletier 4 other Profs

GRANDS SÉMINAIRES. (Pupils obtain the B. en Th. by passing a certain number of quarterly examns. in the Seminary.) Québec (comprising Theol. students under its jurisdiction or following its courses); Ste. Anne de la Pocatière (Coll. de Ste. Anne); Rimouski; Chicoutimi; Nicolet; Trois Rivières.

ENSEIGNEMENT SECONDAIRE MODERNE ET CLASSIQUE Numerous institutions are affiliated to the Univ under conditions providing for complete preparation for Inscription and the Baccalauréat

GENERAL INFORMATION (v. also p. 303)

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, 158,000 vols **MUSEUMS** Mineral, Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins **LABORATORIES** Chem., Phys., Bact., Biol.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers annexed), Theology, Law, Medicine

DEGREES AND DIPLOMAS. The Univ perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine or applied science. It is obtained before he leaves the affiliated Institute, Seminary or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B ès A., those who reach this standard in either and a certain lower standard in the other obtain the B ès L. or B ès Sc. The course for the Licence covers 2 yrs in Philos. (L. en Ph.) or Letters (L. ès L.), 3 yrs in Theol. or Law (L. en Th. or Dr.). To obtain the D. en Ph. or D. en Dr. it is necessary to support successfully in public a thesis and propositions as in other French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns. for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry or Bachelorship in Surveying implies 4 yrs.' study in the Sch. of Surveying and Forestry.

The new École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A. (v. also p. 257)

FEES for tuition, \$100 to \$150 p.a.

THE YEAR 1922-23

NUMBER OF STUDENTS Arts, 1501 (including 1296 in affiliated seminaries and Colleges); Theol., 363 (including 154 in affiliated Grands Séminaires), Med., 187, Law, 76, Total, 2127 Degrees conferred B.-ès-A., 97 Others, 204.

McGILL UNIVERSITY, MONTREAL

VISITOR—THE GOVERNOR-GENERAL OF CANADA

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—
E W BEATTY, B A , K C

PRINCIPAL AND VICE-CHANCELLOR—SIR ARTHUR W CURRIE, G C.M G.
K C B , L L D

SECRETARY AND BURSAR—A P S GLASSCO, B Sc

REGISTRAR—J A NICHOLSON, M A , L L D

LIBRARIAN—G R LOMER, M A , Ph D

HON REPRESENTATIVE IN GREAT BRITAIN—W A BULKELEY-EVANS,
M A , 5 Paper Buildings, Temple, London, E C 4

INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from Montreal), including School of Agric, School for Teachers, and School of Household Science.

Principal—F. C. HARTISON, B.S.A. Tor., D.Sc.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ).
Warden—Ethel Hurlbatt, M.A. Dub. (Somerville Coll., Oxford).

PROFESSORS, LECTURERS, ETC., November 16, 1923

Accountancy
Thompson, R R , A C A (Engl & Wales) Asst Prof

Agriculture, v infra

Anatomy [Prof
Whitnall, S E , M A , D M Ox
MacDermot, H E , M D Lectr
Thompson, I McL , B Sc ,
M B , Ch B Edin Lectr
10 Demrs

Architecture

Traquair, R , M.A (Hon),
F R I B A Macdonald Prof
Nobbs, P E , M A . F R I B A ,
A R C A (Design) Prof
Dyonnet, E Spl Instr
Turner, P. J , F R I B A . (Constrn.,
etc) Lectr
Carless, W , O B E , F R I B A
Asst Prof

Thomson, L R , B A Sc
Spl Lectr

Bio-Chemistry [Prof
Macallum, A B , M A , M B ,
Ph D , D Sc , L L D , F R S
Simpson, G E , M A , Ph D
Asst Prof

Mason, E H , Ph B , M D
Lectr (*Path Chem*)
Rabinovitch, I M , M D
Lectr (*Path Chem*)
4 Demrs

Biology, v Zool

Botany [Macdonald Prof
Lloyd, F E , M A Princeton
Derick, Carrie M , M A (Morph.
B) Prof.
Scarth, G W , M A Lectr
1 Demr

Chemistry, v. also *Physiol*

- Ruttan, R F, B A, D Sc Tor,
M D. Macdonald Prof.
Evans, N N, M A Sc. Assoc Prof.
Johnson, F M G, M Sc, Ph D
Bres, F I C Prof (Inorg C)
Maas, O, M Sc, Ph D Harv
Assoc Prof.
Whitby, G S, M Sc, Ph D,
A R C S Assoc Prof
McLean, A R M, M Sc, Ph D
Asst Prof
Hatcher, H W, M Sc, Ph D
Asst Prof
9 Demrs

Classics

- Woodhead, W D, B A Ox, M A
Alberta, Ph D Chic Prof
Slack, S B, M A Ox. (Lectr in
Comp Philol) Prof
Carruthers, C H, B A Ox, M A
Asst Prof
Thompson, A M, Ph D Harv.
Asst Prof
Irwin, Eliz A, M A.
Lectr & Tutor *

Commerce, v. also *Acctcy*, *Law*

- Sugars, R M, M A
Dir of School and
Assoc Prof of Spanish

Dentistry, v. *infra**Economics*, v. *Pol. Econ**Education*

- School for Teachers in Mac-
donald College: [Dean & Prof.
Laird, S, M A, B Phil
Brunt, H. D, M A, Ph D Lectr
Percival, W. P, B A. Lectr.
Lockhart, A R B, B A Lectr
Thompson, J G, M A Lectr
McQuat, J. E, B S A Lectr.
Musgrove, R. B Lectr.
Brownrigg, Miss N Lectr.
2 Instrs.

Department of Physical Educa-
tion

- Lamb, A S, M D. Director.
6 Assts

Engineering, v. *infra**English Lang and Lit*

- Lafleur, P T, M A Molson Prof
McMillan, C., M A, Ph D Harv
Assoc Prof
Latham, G W, B A Harv
Assoc. Prof
Files, H G, M A, Ph D. Harv.
Asst Prof
Noad, A S, M A Lectr
6 Assts

French

- [Assoc Prof
Du Roure, R, Agrégé France
Touren, Lucie, L ès L France
Asst Prof *
Villard, P., M A, M D, O I P
Asst Prof
King, Mabel L, M A Lectr
Roche, A J, L -ès-L France
Lectr.

Geology

- Adams, F D, Ph D Heid, LL D
Tor, D Sc, F G S A, F R S.
(G and Palæont) Logan Prof
Bancroft, J A, Ph D
Dawson Prof
O'Neill, J J, M Sc, Ph D
Asst Prof

1 Demr

German

- Walter, H, M A Edin, Ph D
Mun Prof
Lambert, E T, B A Lond
Asst Prof
Meyer, Bertha, M A Lectr.

Hebrew and Semitic Langs

- Brockwell, C A B., M A Prof
Gordon, A R, M A, D. Litt
Aberd Prof
Graham, W C, M A Lectr

Hellenistic Jewish Lit

- Abbott-Smith, G, M A, D D,
D C L Asst Prof

Histology and Embryology

Simpson, J C, B Sc Assoc Prof.
Fisk, W M, M D (Histol) Lectr.
Jackson, F Slater (Embry) Lectr

History

Williams, Basil, M A Ox. Prof
Fryer, C. E., M A, Ph D Harv Prof
Waugh, T R, M A Assoc Prof

Household Science

Philp, Miss B, Head of the
School of H S in Macdonald
Coll
5 Instrs

Law, v. infra

Logic, v. Philos.

Mathematics

* Harkness, J, M A Camb (Pure M) Redpath Prof
Sullivan, C T, B A Dal, M Sc, Ph D Chic, D Sc Assoc Prof
Murray, D A, Ph D J H U (Applied M) Prof
Gillson, A H S, M A Camb Assoc Prof
Matthews, T H, M A Ox Asst Prof
Tate, H, B Sc, M A Dub Asst Prof
Dodd, G J, B Sc (M and Civ Engin) Lectr
Jamieson, R E, B Sc (M and Civ Engin) Lectr
Eadie, R S, M Sc Lectr

Medicine, v. infra

Metallurgy

Stansfield, A, D Sc Lond, A R S M Birks Prof
Sproule, G St G, M Sc (Assaying) Lectr
Pascoe, C F Spl Lectr.
Roast, H J, F C S. Sess Lectr.
2 Assts

* Ob Dec 1923

Mineralogy

[Assoc Prof
Graham, R P D, B A Ox, M Sc,

Mining, v. Engineering

Music

Perrin, H C, Mus D Dub. Prof.
Lichtenstein, Clara Assoc Prof †

Nursing

Shaw, Miss M Directress of School.
18 Lectrs and Instrs

Philology, v. Classics

Philosophy

Caldwell, W, D Sc Edin (Moral P) Macdonald Prof
Hickson, J W A, M A, Ph D Halle (Logic and Met.) Assoc Prof.

Physics

[Macdonald Prof.
Eve, A S, D Sc, F R S
King, L V, M A. Camb, D Sc. Prof.
Shaw, A N, B A Camb, D Sc Assoc Prof
Gray, J A, O B E, D Sc Assoc Prof.
Reilley, H E, B A, M.Sc Asst Prof.
Keys, D A, M A, Ph D Asst Prof
Bieler, E S, M Sc, Ph D Asst Prof
8 Demrs

Physiology

Tait, J, M D, D Sc. Drake Prof.
Green, F, M D Lectr
Cassidy, G J, M D Lectr
Giblin, N, M B, Ch B Lectr.
4 Demrs

Physiol Chem.

Shaw, T. P, M D Lectr.

Political Economy

Leacock, S, B A Tor, Ph D Chic, Litt.D, LL D Prof

† In Royal Victoria Coll.

Hemmeon, J C, M A, Ph.D
Harv Assoc Prof

Day, D J., B A, B Sc, Ph D
Assoc Prof

Fyfe, H. M, M A Asst Prof

Psychology, Exper

Tait, W. D, B A Dal, Ph D
Harv Assoc Prof

De Silva, H R, M A Lectr

Social Service

Dawson, C A, Ph.D Director
12 Lectrs (Part-time)

Spanish, v Commerce

Zoology [Strathcona Prof.

Willey, A, D Sc, F R S

Stafford, J, B A Tor, M A, Ph D.
Leip Asst Prof

Henderson, Jean T, B A Lectr

**Agriculture, School of, in
Macdonald Coll.**

Agricultural Engineering

Heimpel, L G, B S A Lectr

Agronomy [Asst Prof

M'Taggart, Alex, Ph D

Raymond, L C, B S A Lectr

Animal Husbandry

Barton, H, B S A Prof.

Ness, A R, B S A Lectr

Crampton, Earle W, M S, B S A

Lectr

Bacteriology

Harrison, F C, D Sc (Principal)

Hood, E G, B S A Lectr

i Asst

Biology

Lochhead, W, B. A., M Sc. Prof.

Dickson, B T, B A, Ph D Prof

Biffen, W, B Sc, N D D Lectr.

Coulson, J G, M A Lectr

i Asst

Cereal Husbandry

Summerby, R, B S A Prof.

McRostie, G P, Ph D. Asst Prof

Chemistry

Snell, J F, Ph D Prof.

McCarthy, J. B, B A, D Sc
Asst Prof.

i Asst

Homemakers Clubs, etc

A Superintendent and 10 other
Assts

Horticulture

Bunting, T G, B S A Prof.

Tawse, W J, B S A Lectr

Howitt, M H, B S A Lectr

i Asst

Physics

Lynde, C J, Ph D. Prof.

Poultry

Maw, W A, B S A Lectr

Dentistry

Clinical Dentistry

Thornton, A W, D D S (Dean
of the Faculty) Prof

D Pathology and Therapeutics

Henry, Fred G, D D S. Prof

Operative D

Baxter, F H A, D D S Prof

Driver, H V, D D S Lectr

Oral Surgery

Pennoyer, A R, M D Lectr

Orthodontia

Morison, J B, D D S Prof

McClelland, A W, D D S

Assoc Prof

Prosthetic D

Cameron, G S, D D S Prof

Dohan, J S, D D S Assoc Prof

D Jurisprudence

Bond, W L, B A, B C L, K C [Lectr

D Anatomy

Jack, A C, D D S Lectr

D History, Ethics and Econ

Stevenson, F A, D D S, D M D

Harv Lectr

Engineering, v also Archit, Maths

Applied Mech and Hydraulics

Brown, E, M Sc, M Eng Prof

Batho, C, B Sc Manc, B Eng &
M Sc Liv, D Sc Assoc Prof

Civil E

Mackay, H M, B A, B A Sc,
M Am Soc C E Prof

Lamb, H M, M Sc Assoc Prof

Economics

Brown, F B, M Sc Lectr

Electrical E.

Herd, L A, E E (Inst Montef,
Belg), D Sc Macdonald Prof

Christie, C V, M A, B Sc Dal
Assoc Prof

Burr, E G, B Sc Asst Prof

Wallace, G. A, B Sc Lectr
2 Demrs

Freehand Draw & Descr Geom

Armstrong, H F, M A (Hon)
Assoc Prof

Highway and Municipal E

French, R de L, B Sc, C E Prof

Law, Engineering

Weldon, J W Lectr

Mechanical E

McKergow, C M, M Sc Prof

Roberts, A R, M Sc Assoc Prof

Coote, J A, B Sc Lectr

Patton, R H, B Sc Lectr

Vessot, C U, M Sc Lectr

3 Demrs

Mining E [Macdonald Prof

Porter, J B, E M, Ph D Col,
D Sc (Hon) Cape, M I C E

Bell, J W, M Sc Assoc Prof

Erlenborn, Willi, M Sc Lectr

3 Research Fellows

Surveying and Geodesy

Kelly, A J, B Sc Asst Prof

Weir, James, B Sc Asst. Prof

Law

Civil L

Howard, Hon Justice E E, B A.,
B C L, K C Prof

Chipman, W F., B A, B C L,
K C Asst Prof

Beullac, P, K C Lectr

Civil Procedure [Prof

Surveyor, Hon Justice E F,
B A Laval, B C L., K C

Commercial L

Martin, Justice J E, B C L., K C
Prof

Le Mesurier, C S, B A, B C L
Lectr

Tyndale, O S, M A, B C L Lectr

Common L and Jurispr

Smith, H A, M A Ox Prof

Constitutional L

Mackay, I A, M A, LL B Dal,
Ph D Corn Prof

Criminal L

Greenshields, Hon Justice R A
E., B A, B C L Prof

Criminal Procedure

Calder, R L, B C L, K C Lectr

Ethics, Legal

Mignault, P B LL D Laval,
K C Prof

Evidence

Wainwright, A, B A, B C L, K C
Prof

Internat L, Private

McDougall, G W, B A, B C L,
K C Prof

Municipal L

Rinfret, T, B C L Lectr

Notarial Law

Bridgman, R H, B C L Lectr

Roman L

Rose, H E, B A, B C L, LL M
[Lectr

Medicine (for subjects of first 2
yrs —Anat, etc., v. *supra*)

Bacteriology

Bruère, A A, M D Edin (B and
Cln Med) Asst Prof

McKee, S H, C M G, B A, M D
(B and Ophth) Lectr.

1 Asst. Demr.

Dermatology [Clinical Prof
Campbell, C G, B Sc, M D
Burnett, P, M D. Lectr

Gynaecology and Obst
Chipman, W W, B A, M D and
F R C S Edin Prof
Lockhart, F A L, M B Edin, M D Prof
Little, H M, B A, M D Asst Prof
Goodall, J R, O B E, B A, M D, D Sc Lectr
Patrick, D, M D Lectr
Duncan, J W, M D Lectr
Burgess, H C, M D Lectr
Fraser, J R, M D Lectr
2 Demrs

History of M.
Macphail, Sir A, B A, M D Prof.

Hygiene [Strathcona Prof
Starkey, T. A, M B, D Ph, L R C P Lond, M R C S. Eng, M D, C M
McDonald, R St J, B A, M D, D P H Lectr
Jones, F. B, M D, D P H Lectr

Immunology
Gurd, F B, B A, M D Lectr

Med Jurispr [Prof
MacTaggart, D D, B A Sc, M D

Med and Clin Med., v also
Bact, Ped
Finley, F G, C B, M B Lond, M D Prof
Martin, C F, B A, M D Prof.
Hamilton, W F, M D Assoc Prof
Gordon, A H, M D Asst Prof
Peters, C A, M D Lectr.
Mason, E H, M D Lectr.
Robertson, A A, B A, M D Lectr

Kaufmann, J, M D Lectr
Cushing, H B, M D Lectr
Lewis, D S, B A, M D Lectr
Wylde, C F, M D Lectr
Moffatt, C F, M D Lectr
20 Demrs. and Asst Demrs

Neurology, Clin.
Russel, C K, B A, M D
Mackay, F H, B A Lectr

Ophthalmology, v also Bact
Byers, W G M, M D, D Sc Prof
Mathewson, G H, B A, M D Clinical Prof
Tooke, F T, B A, M D Lectr
McKee, S H, B A, M D Lectr
4 Demrs and Asst Demrs

Oto-Laryngology
Birkett, H S, C B, M D Prof.
Hamilton, H D, M A Bish, M D, L R C P and S Edin, L F P S Glas (O.-L & Rhin) Lectr
5 Demrs and Asst Demrs

Parasitology [Assoc Prof
Todd, J L, B A, M D, D Sc (Hon) Liv, M R C S E

Pathology
Oertel, H, M D Strathcona Prof
Rhea, L J, B Sc, M D

Assoc Prof
Abbott, Maude E, B A, M D Bish, L R C P and S Edin Lectr
Crowdy, C T, M D Lectr.
Scott, J W, M D Lectr
7 Demrs

Pediatrics
Fry, F M, B A, M D (and Demr in Clin M) Lectr in P
Cushing, H B, M D Lectr in P
8 Demrs and Asst Demrs

Pharmacy
Moore, A. B J, Ph G. Hd of Dept, Prof

Pharmacology
Stehle, R L Assoc Prof
Bourne, W, M D Lectr
Lewis, D S, B A, M D Lectr
3 Demrs

Physio-Therapy
Harvey, F W, B A, M D Lectr
Brown, N, M D Lectr

<i>Psychiatry</i>	[Clinical Prof	Patch, F S, B A, M D (Genito-Urinary)	Prof
Porteous, C A, M D			
Mundie, G S, B A, M D	Lectr	Mackenzie, D W, B A., M D (Genito-Urinary)	Prof
2 Demrs		Turner, W G, B A, M D, M R C S. Eng (Orthop Surg)	Prof
<i>Radiology</i>		Forbes, A M, M D (Orthop Surg)	Prof
2 Demrs		Howell, W B, M D (Anæsthesia)	Lectr
<i>Surgery and Clin Surg.</i>		Hepburn, W G, M D. (Anæsthesia)	Lectr.
Archibald, E W, B A, M D	Prof	Scrimger, F A C, B A, M D.	Lectr.
Garrow, A E, M D.	Asst Prof	Tees, F J, B A, M D	Lectr.
Bazin, A T, M D	Asst Prof	Henry, C K P, M D	Lectr
Eberts, E M, M D, M R C S Eng	Asst Prof	10 Demrs and Asst Demrs	
Barlow, W L, B A, M D	Lectr		
Keenan, C B, M.D	Lectr		

AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr course in Engin of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses Alberta students who have completed their 3rd yr in the Med course are admitted to the 4th in McGill.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Appl. Sc. Particulars obtainable from the Dean of the Faculty

THEOLOGICAL COLLEGES

CONGREGATIONAL COLLEGE OF CANADA, MONTREAL. Principal, D. L. Ritchie, B A., D.D.

DIOCESAN COLLEGE OF MONTREAL. Principal, E. I. Rexford, M.A., LL.D.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, D. J. Fraser, M A., LL D.

WESLEYAN COLLEGE OF MONTREAL. Principal, J Smyth, LL.D

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

GENERAL INFORMATION (v. also p. 303)

The Hon. James McGill, of Montreal, who died in 1813, bequeathed 46 acres of land, with some buildings and £10,000, to found a college, and in 1821 the Royal Institution for the Advancement of Learning, the trustees for the purposes of the bequest, obtained a Royal Charter (amended in 1852) under which the work of teaching was begun in the Faculties of Arts and Med. in 1829. The Governors are the members of the Royal Institution above mentioned. Their number is limited to 25, and vacancies are filled by nomination of the remaining members, with the approval of the Visitor. The Govrs., Principal, and 42 Fellows (representing faculties and depts., grads., affil.

colls., and other bodies) constitute the Corporation, the highest academical body, which frames regulations. The Peter Redpath Museum was opened in 1882, the Redpath Library in 1893. Royal Victoria Coll. in 1899, the Conservatorium in 1904. Macdonald College was opened in 1907, and in 1911 Sir Wm Macdonald purchased for the use of the Univ., at a cost of \$1,117,640, 25 acres of land, destined for students' residences and athletic grounds. The same year \$1,550,000 was raised for the Univ. chiefly from Montreal citizens. Sir Wm. Macdonald bequeathed nearly \$2,000,000, of which \$500,000 was for the Medical Faculty and \$300,000 for the Conservatorium. In 1918 the Carnegie Corporation, New York, gave \$1,000,000 in recognition of McGill's service and sacrifice in the Great War. In 1920 the sum of \$1,000,000 was given by the Rockefeller Foundation for the Faculty of Medicine, \$1,000,000 by the Provincial Govt. for general purposes, and \$4,400,000 was raised from the graduates and the citizens of Montreal as a general endowment. Income from Investments, about \$1,000,000.

SPECIAL FEATURES. The provision for instruction and research in Applied Science is exceptionally ample, especially in Engin. in all its branches. The Med. School also is exceptionally strong.

LIBRARIES, 181,000 vols. (Medical, 30,000; large Ophth. Dept.) and 31,000 pamphlets, Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600, E. S. Wood Library of Ornithology, Blackader Library of Archit., Blacker Library of Zool., Travelling Library. **LABORATORIES** Engineering and Chemistry, each accommodating 200 students, Physics, Zool., 100 students, 3 rooms specially fitted up for research, Bot., 43 students, Physiol., 80, Psych. Research, Agric. Research FARM, Live Stock and Grain, 786 acres. **ASTRON. OBSERVATORY** **MEDICAL MUSEUM** (Strathcona), said to be the finest in America, rich collection of disturbances of heart and vascular system and aneurisms. **HOSPITALS**, available for clinics, general—800 beds, several special.

FACULTIES Arts, Law, Medicine (including Pharmacy), Applied Science (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Social Service, a Graduate School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION For candidates in Great Britain an examn. is held in London in June, particulars obtainable from W. A. Evans, M.A., 5 Paper Buildings, Temple, London, E.C. 4.

DEGREE COURSES 3 yrs.—B.C.L., LL.B., Mus. Bac., 4 yrs.—B.Com., B.A., B.Sc., B.S.A., B.H.S. (Household Science), D.D.S., 5 yrs.—B.Arch., 6 yrs.—M.D., C.M.

B.A. or B.Sc. (Arts) course combined with B.Com., 5 yrs., with Appl. Sc. or Theol., 6; Med., 8.

Med. students of 5 yrs.' standing of an approved institution may be admitted to the final examn. after one full session in McG. Recent grads. of approved Univs. may qualify for examns. by advanced courses or special research.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McG., thesis and examn.—M.A., M.Sc., LL.M., M.S.A.; by 3 yrs. of graduate study—Ph.D., by valuable contribution to legal science—D.C.L.; by a composition and examn. not less than 3 yrs. after taking the Mus. Bac.—Mus. Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

DIPLOMAS Lic. Mus., D.P.H., Teachers, Pharmacy, Graduate Nurses', Physical Education, Social Science.

OTHER COURSES. Music Certif., Agric. (2 yrs. or 1 yr.), Household Sc. (2 yrs, 1 yr., or shorter), Social Science (1 yr., and numerous special courses).

ATTENDANCE at lectures at the Univ or Macdonald or Affiliated Coll is indispensable.

RECOGNITION by other Univs. v. pp 95, 248, 256, 257, 288

FEES Per annual session, Arts, \$100, Appl. Sc, \$205, Med, \$200, Dent, \$200, Law, \$150, Music, \$175, Commerce, \$150, Agriculture, residents of Canada, \$50, others, \$100; M A or Ph D course, \$40 Graduation fee for M A or M Sc, \$20, Ph D, \$30, D Sc or D Litt, \$80

SCHOLARSHIPS FOR GRADUATES In Econ and Polit Sc, Allen Oliver, \$650, Canadian Manufs Assocn, \$800, Chem, Sterry Hunt, Geol, Lc Roy, \$700, Mining Research and Teaching Fellowships, 3 of \$500 each, Med Research, especially Obstetrics and Gynæc, A A Browne Endowment, \$10,000 open to grads of any recognized Med. school, Path Research, J Douglas Endowment, \$25,000, any subject, "Delta Upsilon," \$750, Law, Macdonald Endowment, \$20,000

RESIDENCE. Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. **PHYSICAL TRAINING** is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll, \$500 per session, in private houses, \$60 p.m. and upwards, rooms only, \$15 to \$20 p m.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

PUBLICATIONS. *Calendar* (June), *Coll Announcements* (May to July); *Annual Report* (Dec.), *McGill News*, quarterly, by Graduates' Soc; *McGill Daily*, by students.

THE YEAR 1922-23

PRINCIPAL BENEFACTIONS Walter Stewart, \$5500 for purchase of X-ray apparatus, Mr and Mrs Blacker, \$5000 for Blacker Library of Zoology, Dr Casey A Wood, \$400 for Wood Library of Ornithology, Ritter Dental Manuf Co, X-ray machine, value \$1500, Nash Engineering Co, Conn, testing apparatus, value \$3500, Loid Congleton, Oil Engine, value \$350, Mrs Aldana R. Spencer bequest, \$3000, Robert Bruce bequest, yielding over \$400 p a for scholarships, Isabella C MacRae bequest, \$3021 for a scholarship open to residents of Maxville, Ont

NEW COURSES AND CHANGES IN CURRICULA Course for B Com lengthened from 3 years to 4, new double course established leading to B A and B Arch, including 3 years in Faculty of Arts and 4 in Applied Science, requirements for B Sc in Medicine changed to (1) Honour standing in any 2 of Anat. (including Histol and Embryol), Physiol, Bio-chem, Pharmacol, Path, (2) in addition to regular undergrad. course in Med, 240 hours of specialized study of and Honour standing in one of these subjects, under guidance of Department concerned (the course extends over four years) An extension course on Export Trade, demanding full-time work, was given from Jan 29 to Feb 10, 1923, under joint control of School of Commerce, Dept of Economics of the Univ, Canadian Dept of Trade and Commerce, and Canadian Manufacturers Assocn. attendance 130 2 extension courses were given at outside centres in English and Psychology, chiefly for the benefit of teachers. Those given at the Univ. included such subjects as English (2 courses), Psych.,

French Lit., Social Sc, Comm'l Law, Acctcy, Canadian Hist, Botany, Pol. Econ., Archit., Elec. Eng.

The Modern Language Dept has been divided into 2 Romance Langs and Germanic Langs. The Medical Faculty now opens a week earlier to enable graduates to receive degrees at the general Convocation.

An *Athletic Governing Board* was established to be solely concerned with the outside work of games and control of the stadium, thus relieving the Dept of Physical Educn of part of what was found too heavy a burden. Stuart Forbes, B.Sc., B.Arch., was appointed Manager under the Board.

NEW POSTS Assoc Prof of Economics, Asst Prof of English, Lectrs in Criminal Procedure, Comm'l Law, Physio-Therapy (2), Immunology, Librarian of Dr. Wm Osler Library, Asst Registrar.

HOSPITAL AMALGAMATION The Montreal Maternity was merged with the Royal Victoria, which will thus be more closely in touch with the Univ. It is planned to build a new and much larger building on the Royal Victoria grounds.

SUMMER SCHOOLS Three at Macdonald College: (1) in Rural Improvement—attendance 97, chiefly clergymen, (2) in pedagogy, etc., for principals of high schools, attended by 30, and (3) in Drawing—attendance 70. One in Librarianship, May 21 to June 29—attendance 11. One in French, July 3 to 31—attendance over 100, majority of whom came from U.S.A. In this connexion a project is on foot to establish a "Maison Française," where students of the Univ. will be able to live in an entirely French atmosphere.

THE GRADUATES' ENDOWMENT FUND One outcome of the reunion of graduates in the centennial year (1921) was the organization of a Committee to establish a fund by annual subscriptions from the graduates, to be under the control of trustees elected, some by the Graduates' Society and some by the Univ. The organization is now complete, and subscriptions are being solicited. It is expected that a large and steady revenue will be provided from this source in future.

RESIGNATIONS G. E. Armstrong, Prof of Surgery, to devote himself entirely to consulting practice, H. G. Barbour, Prof of Pharmacology, to occupy a chair at the Univ of Louisville, Ky., J. A. Hutchison, Prof of Surgery, on apptmt as Chief Surgeon of the Canadian National Railways, M. A. Jull, Manager and Lectr Poultry Dept, to accept position of Head of the Dept of Poultry Investigation under the Dept of Agric in the U.S.A., Gordon Laing, Head of Dept of Classics, to accept Deanship of Graduate School of Arts and Literature at Univ of Chicago, J. L. Morn, Asst Prof of Modern Langs, to retire on pension, B. K. Sandwell, Asst Prof of Economics, to accept Headship of English Dept in Queen's Univ., J. W. Stirling, Prof of Ophth, on account of ill-health, O. S. Tyndale, Asst Prof of Comm'l Law, to resume practice. **DEATHS** Sir T. Roddick, Emeritus Prof of Surgery, Feb. 20, 1923, J. W. Scane, Asst Dean of the Faculty of Med., May 20, 1923, W. Vaughan, Bursar, 1897 to 1918, June 15, 1923.

HONORARY DEGREES LL.D.—Admiral W. S. Sims, J. S. McLennan, A. J. Brown, Sir R. S. S. Baden-Powell, Col. W. J. Mayo, Sir R. Jones, Col. Sir Wm Taylor. M.A.—Profs R. Traquair and H. F. Armstrong.

OTHER DEGREES B.A. 87 (including women—22), B.Sc. in Arts 23 (w. 3), B.H.S. 4 women, B.Com. 46 (w. 1), B.Sc. in App. Sc. 158, B.Arch. 6, B.C.L. 9, LL.B. 7 (w. 1), Mus.Bac. 2 women, M.D., C.M. 126 (w. 5), D.D.S. 24, B.S.A. 21, M.A. 7 (w. 2), M.Sc. 19 (w. 3), LL.M. 1, Ph.D. 7, Mus.Doc. 1.

NUMBER OF STUDENTS. Total (excluding 1146 enrolled in Extension Courses and 18 in more than one Faculty) 2883 (in 1921-22, 2665), Undergrads. in Arts 527 (including 183 women), School of Commerce 183 (w 7), App Sc 582, Med 715 (w 11) Dent 131, Law 72 (w 4), Agr 56 (w 1), Partial Students in Arts 160, other Faculties and Depts 180, Music 23 women, preparing for D P H 1, for Dip Phm 42 (w 2), School for Social Workers 12 women, Physical Educn 44, for Graduate Nurses 12, Graduate School 93 (w 10), Household Science 68.

McMASTER UNIVERSITY, TORONTO

CHANCELLOR AND PRINCIPAL—HOWARD P WHIDDEN, B A , D D ,
LL D

REGISTRAR AND TREASURER—E J BENGOUGH, B A

LIBRARIAN—DOROTHEA M HALLFORD, B A

PROFESSORS, LECTURERS, ETC , September 21, 1922

<i>Biology</i>	[Prof	<i>Political Economy and Sociology</i>	
Smith, R W , B A , Ph D Chic		Michell, H , M A Ox	Prof
<i>Chemistry</i>		<i>Public Reading and Speaking</i>	
Walker, W O , M A Tor	Prof	Kirkpatrick, F H , Ph D	Spl Lectr
<i>English</i>		<i>Theology</i>	
McLay, W S W , M A Tor ,	Prof	<i>Christian Ethics, Education, and Sociology</i>	
D Litt Ac		McCrimmon, A L , M A Tor ,	Prof
<i>French</i>		LL D	
Franzen - Swedehus, B , B A ,	Prof	<i>Church History and Missions</i>	
Ph D Col		Brown, J G , M A , D D	Prof
<i>Geology</i>	[Prof	<i>Homiletics and Pastoral Theol</i>	
McNairn, W H , M A , Ph D Tor		Gilmour, J L , M A , D D	Prof
<i>German</i>		<i>New Test and Patristic Greek</i>	
Mueller, P W , B A	Prof	Farmer, J H , B A , LL D	Prof
<i>Greek</i>		<i>Old Test , Hebrew and Aramaic</i>	
Campbell, P S , M A	Prof	Curr, H S , M A Edin , B D ,	Prof
<i>History</i>		B Litt.	
New, C W , B A , B D , Ph D Chic	Prof	<i>Preliminary Course</i>	
<i>Latin</i>		Morgan, J , M A	Spl Lectr
Moon, A J , M A Virg	Prof	<i>System Theol and Apologetics</i>	
<i>Mathematics</i>	[Prof	Keirstead, E M , B A New Bruns ,	
Findlay, W , M A , Ph D Chic		M A , D D Acad , LL D	Prof
<i>Philosophy, Psychology, Logic, and Ethics</i>		<i>Hon Lectrs</i>	
Ten Broeke, J , M A , Ph D Yale	Prof	MacNeill, J., B A , D D (Evangelism)	
<i>Physics</i>	[Prof	Merrill, B W , B A , B.Th. (Rel. Educn)	
Dawes, H F , M A , Ph D Tor			

AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affild. for courses in Arts.

GENERAL INFORMATION (v. also p. 303)

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by \$900,000, received under the will of the Hon Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs and Lectrs. must be members of some evangelical church. Woodstock Coll and Moulton Ladies' Coll., Toronto (founded in 1888), are represented on the Senate

LIBRARY, 25,000 vols. **LABORATORIES** · Phys, Biol., Chem., Mineral. Science Hall has 24 lecture rooms and labs.

DEGREE COURSES. 4 or 5 yrs., B.A. ; 3 yrs. (after completing 2 yrs. of Arts course), B.Th., 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B A degree is recognized by Ox Camb, Lond, and N.Y. State, v. also p 95

HIGHER DEGREES. Open to B A after 1-yr. course (attendance at lectures not required)—M A. ; to B.Th who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th —B D.

DIPLOMA. English Theol., 3 yrs' course.

CERTIFICATE Missionary Training for women.

ADULT EDUCATION For adults who have not the necessary foundation for admission to the English Theol or Women's Missionary course, a year of literary and biblical work qualifying for such admission is provided, chiefly in the form of evening classes

FEES. Annually, for tuition, examn, library—Arts, \$50, Theol., \$12. For student organizations, athletics, etc, men, \$7, women, \$9

RESIDENCE Board and room per session, men, in McMaster Hall, \$240, women, in Wallingford Hall, \$9 a week

PUBLICATIONS *Calendar* (June), *McMaster Monthly* (students' magazine), *McMaster Graduate*, quarterly

THE YEAR 1922-23

HONORARY DEGREES CONFERRED LL D—Sir James Marchant, President W. G. Harding, E R Cameron, E. J Tarr, D D.—E. W. Parsons, M F McCutcheon, J W. Latch

OTHER DEGREES B A, 56 (including women—25), M A., 8 (1 woman), B Th, 5

STUDENTS Graduates, 46 (including women—7). Undergrads, full-time, 247 (w.—81), part-time, 38 (w—13) Total, 321 (excluding duplicate registration) Students preparing for B A, 191, for Theol Dip and B Th, 35, for Missionary Training Certif, 3

UNIVERSITY OF MANITOBA, WINNIPEG

VISITOR—THE LIEUT-GOVERNOR OF THE PROVINCE

CHAIRMAN OF THE BOARD OF GOVERNORS—ISAAC PITBLADO, M.A ,
LL D , K C.

VICE-CHAIRMAN—J. A MACHRAY, M.A , LL B , K.C.

CHANCELLOR—Most Rev. S P MATHESON, D D , D C L , Archbishop
of Rupert's Land

VICE-CHANCELLOR—Rt Rev Mgr A A CHERRIER, LL D

PRESIDENT—JAMES A MACLEAN, Ph D , LL D.

REGISTRAR—W J SPENCE, B A

LIBRARIAN—F E NUTTALL, M A

DEAN OF WOMEN—URSILLA N MACDONNELL, M A , Ph D.

PROFESSORS, LECTURERS, ETC., November 26, 1923

Anatomy, v also Med -Surg

Grant, J C B, M B, Ch B,
F R C S Edin Prof

McGibbon, R T, M B, Ch B
Glas Asst Prof

Wheeler, D, M A, M D, C M,
M R C S Eng, L R C P
Lond Lectr

Grain, G O, B A, M D, C M
Demr

Hogg, A W, B A, M D Demr

Boyle, S F, M D, C M Demr

Architecture

Stoughton, A. A., Ph B Col Prof

Bio-Chemistry

Cameron, A T, M A, B Sc Edin,
F. I. C Prof

Ingvaldsen, T, M S, Ph D
Asst Prof.

Botany

Buller, A H. R, B Sc Lond,
D Sc Birm, Ph D. Leip Prof

Roberts, H F, B A. Kans, LL B
N -Wstn., M Sc. Kans (Agr)
Asst Prof

Lowe, C W, M Sc Birm Lectr
i Demr

Chemistry

Parker, M A, B Sc Glas, F I C [Prof
Armes, H P, B Sc Leeds, Ph D
Stras Asst Prof

Shipley, J W, M A, Ph D Harv
Asst Prof

Lipsett, S G, B Sc Asst
i Demr and 4 Student Demrs

Classics

Clark, F W, Ph D Chic, B A.
Prof

Hugill, W M, B A Tor
Asst. Prof

Tracy, H L, * B A Tor Lectr
Lindsay, W., M A

Lectr (*ad int*)

Engineering, Civil

Finlayson, J N, M.Sc McG,
M E I. Can Prof.

Asst. Profs

Johnstone, L I, * B S. Maine,
A M Amer Soc C E

* On leave of absence, 1923-24.

Moffatt, R W, B A.Sc Tor.,

A M E I Can

Cameron, C F, B A, B C E,

A M E I Can

Macdonald, A E, M Sc McG

Davies, V R, M C E, M Sc McG
(ad int)

Lectr

Scott, W M, B A Sc McG,

M E I C

3 Demrs.

Engineering, Electrical

Fetherstonhaugh, E P, B Sc

McG, M E I C, A M A I E E

Dean of Fac Prof

Dorsey, J W, E E Lehigh,

A M E I C Asst Prof

1 Demr

Engineering, Mechanical

Hall, N M, O B E, B Sc McG,

A M E I C Asst Prof

English

Crawford, A. W, M A Tor., Ph D

Corn Prof

Perry, A J, M A Yale Asst Prof

Allison, W T, M A Tor, Ph D.

Yale Asst Prof

Woodhouse, A S P, M A Tor

Asst Prof

Haddow, G C, M A Tor, B A

Ox Lectr

Argue, R F, M A Lectr

French

Osborne, W F, M A Tor Prof

Green, F C, M A, St And, Ph D

Cologne Asst Prof

Ballu, Céline A, B A Wisc Lectr

Haynaud, A Marie, B A Qu

Lectr

Richard, M E, B A Alb Lectr

Geology and Mineralogy

Wallace, R C, M A, D Sc Edin,

Ph D Gott, F G S Prof

De Lury, J S, B A Tor,

M A I M E Asst Prof

Root, T. B, M. S Chic Lectr.

Merritt, C A, B Sc. Asst.

German

Heinzelmann, J. H., B A Ill,

Ph D. Chic. Prof

Jones, Mrs. Anna C A Asst

History

Martin, C B, M A N Bruns,

M A, B Litt Ox Prof

Harvey, D C, B A Dal, M A Ox.

Asst Prof.

Howe, J E, B A Yale, M A

Acad Lectr

MacDonnell, Mrs U N, M A,

Ph.D Lectr

Mathematics

MacLean, N B, M A Tor, Ph D

Chic. Prof

Wilson, N R, M A Tor, Ph D

Chic Prof

Warren, L A H, M A Qu, Ph D

Chic Asst Prof

Tier, W, M A Tor, Dean of Fac

of Arts Asst Prof

Nowlan, F S, M A Harv

Asst Prof

1 Fellow.

Pharmacy

Bletcher, H E, B Sc (Phar) [Prof

1 Asst

Philosophy

Lodge, R C, M A Ox Prof

Wright, H W, B A, Ph D Corn

Prof

Physics

Allen, Frank, M A N Bruns &

Corn, Ph D Corn Prof

McClung, R K, B A Camb, M A,

D Sc McG Asst. Prof.

Miller, C D, B S Rich, Ph D

Chic Asst Prof

Anderson, W. A, B Sc Asst

4 Demrs

Physiology, v Medicine

Political Economy

Clark, A B., M.A. Edin Prof.

Jones, R F, M A. Liv Asst Prof

McCullough, Lily A, M A, LL B.

Asst.

Zoology

- O'Donoghue, C H, D Sc Lond, F Z S Prof
 Riley, C F C, M A Doane, B S Mich, M S Ill Asst Prof
 Bulman, Eileen, M A Col, B Sc Lectr
 2 Student Demrs

Medicine (for subjects of first 2 yrs —Anat, etc, v *supra*)**Bacteriology and Hygiene**

- Douglas, A J, B A, M D, C M (Hygiene) Prof
 Cadham, F T, B A, M D (B and Serology) Asst Prof
 Fraser, M S, B A, M D, C M (Hygiene) Lectr
 3 Demrs

Gynaecology

- Simpson, R M, M D, C M, L R C P Lond, M R C S Eng, F A C S Prof
 Mackay, D S, O B E, M D, C M, F R C S Edin. F A C S (Cln G) Assoc Prof
 Pullar, J, B A, M D, C M Assoc Prof
 Bercovitch, A, M D, C M Lectr
 McQueen, J D, D S O, M D, C M, F A C S Lectr (G and *Obstetrics*)

Hygiene, v Bacteriology**Laryngology and Otology**

- Prowse, S W, B A, M D Edin, F R C S Edin, F A C S, Dean of Fac Prof
 Fletcher, G W, M D, F A C S Assoc Prof
 Leishman, A, M D Assoc Prof
 Washington, E J, M D Assoc Prof
 1 Demr in O

Materia Medica and Pharmacy

- Horner, A E, Ph C Lectr

Medicine and Clinical Medicine

- Montgomery, E W, M A, M D, C M, F A C P Prof of Cln Med
 Assoc Profs of Cln Med
 BurrIDGE, A J, M D, F A C P (Therap).
 Davidson, J R, B A, M D, C M
 Hunter, C., M A, M D, M R C P Lond (Therap)
 Hart, F, M D, C M, M R C S, L R C P
 Rogers, W, B A, M D, C M, F A C P
 Gilmour, C R, M D, C M
 Moorhead, E S, M D, B Ch Dub
 Young, F A, O B E, B A, M B, F A C P

Assoc Profs of Med

- Chestnut, W, M D, C M.
 Moody, A W, M D, C M, F A C P
 Stewart, D A, B A, M D Assoc Prof of Med and Cln Med

Asst Profs of Cln Med:

- Alexander, A B, B A, M D
 Ferguson, R G, B A, M D.
 Mackay, H, M D, C M (Dermatology)
 Mathers, A T, M D, C M (Psychiatry)

Lectrs in Cln Med

- Benner, F, M D, C M
 Campbell, S, C M G, M D
 Swan, R R, M B, Ch B Edin.
 McMillan, J C, M D, F A C P Lectr in Roentgenology and Electro-therapy

11 Demrs**Medical Jurisprudence**

- Cameron, H M, B A, M D Lectr

Obstetrics, v also Gyn

- McCalman, D H, B A, M D, C M Prof
 Bjornson, O, M D, C M, F A C S. Assoc Prof

Mitchell, R B, B A, M D, C M,
F A C S Assoc Prof
Coulter, J E, M D, C M,
F A C S Lectr
Campbell, W G, M D, C M
Lectr
2 Clin Demrs

Ophthalmology

Smith, W H., M A, M D, C M,
F A C S Prof
Bell, T H, M C, M D, C M,
F A C S Assoc Prof
Bell, P G, B A, M D, F A C S
Assoc Prof
Stefansson, J, M D Lectr

Pediatrics

Rorke, R F, M D, C M
Assoc Prof
MacArthur, C, M D Lectr
Norton, E L, M B, B Sc Lond
Lectr

2 Clin Demrs

Pathology

Boyd, W, M D, M R C P Edin,
Dipl Psych Prof
Nicholson, D, M D, C M,
M R C S Eng Asst Prof

Physiology and Pharmacology

Moorhouse, V H K, M C, B A,
M B Tor Prof
Austmann, K J, M A, M D
Asst Prof
Lougheed, M S, B A, M A, C M
Lectr

Surgery and Clinical Surgery

Halpenny, J, M A, M D, C M,
F A C S Prof.

Assoc Profs of Clin Surg :
Brandson, B J, B A, M D,
C M, F A C S
Campbell, A M, B A, M D,
C M
Fletcher, R D, M A, M D, C M,
F A C S (Urology)
Galloway, H P H, M D, C M,
F A C S (Orthop)
Gibson, A, M B, Ch B, F R C S,
F A C S (Orthop, also
Lectr in Applied *Anatomy*)
Gunn, J A, C B, O B E, B A,
M D, F A C S
Lehmann, J E, M D, F A C S
Maclean, N. J, M D, F A C S
McKenty, J, M D, C M, F A C S
Webster, W, M D, C M (Anæ
thetics)

Elkin, S J, M D, C M
Waugh, O S, M D, C M, F A C S

Lectrs in Clin Surg :
Gardner, W A, B A, M D, C M,
F A C S (Orthop)
Gorrell, J A, B A, M D, C M
F A C S
Hamilton, T G, M D, F A C S
Mann, W L, B A, M D, C M
McIvor, N K, M D, F A C S
Musgrove, W W, M D, C M,
F A C S
Murray, A A, M D, F A C S
(Orthop)

Lectrs in Surg
McEachern, J D, M D
McIntyre, D F, M D, F A C S
Fahrni, G S, M D, C M, F A C S
5 Demrs

Therapeutics, v Medicine

AFFILIATED COLLEGES represented on the Council, the first four having power to confer degrees in Divinity :

ST BONIFACE COLLEGE, St Boniface (R C) Rector—H Bourque, S J
(Building destroyed by fire, Nov 25, 1922)

ST JOHN'S COLLEGE, Winnipeg (C. of E) Warden—Rev. G A Wells,
C M G, B A, Registrar—W. Burman, B A

MANITOBA COLLEGE, Winnipeg (Presb. Ch. in Canada) Principal—John MacKay, M.A., D.D., Registrar—Prof J. Dick Fleming, Ph.D.

WESLEY COLLEGE, Winnipeg (Meth. Ch. in Canada) Principal—J. H. Riddell, D.D., LL.D.; Registrar—A. Stewart Cummings, B.A.

MANITOBA LAW SCHOOL, Winnipeg Chairman of Trustees—Hon. H. A. Robson, LL.D., Dean—J. T. Thorson, B.A. Ox., LL.B., Recorder—R. J. Russell.

MANITOBA AGRICULTURAL COLLEGE, St. Vital Acting President—Prof C. H. Lee, M.A., Registrar—Prof G. A. Sproule, B.A.

GENERAL INFORMATION (v. also p. 303)

Established in 1877 mainly as an examining and degree-conferring body, the Univ. was in 1900 empowered to give instruction. In 1917 a Board of Governors, appointed by the Lieut.-Govr., was constituted, and the functions of the Univ. Council, until then the governing body and composed largely of representatives of the affiliated Colleges, were limited to general charge of the academic work. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

Winnipeg, the capital of Manitoba, with its environs, including the neighbouring city of St. Boniface, has a population of over 270,000. The Univ. at present occupies a site in the heart of the city, but a new site on the outskirts has been selected. The Agric. Coll. at St. Vital, 7 miles distant, has a farm of 450 acres.

LIBRARY, 35,000 vols., 439 periodicals received. In the Medical building is housed the library, 2000 vols. of the Manitoba C.P.S. **LABORATORIES** Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. **MUSEUMS** Anat., Embry., Bot., Geol., Path. **HOSPITALS** available for clinics 2 general (1000 beds) and several special, including tuberculosis.

FACULTIES (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine (3) Engineering and Archit. Other subjects of Arts course and Law, Agr., and Home Ec. are taught in the affiliated Colls.

MATRICULATION exams are conducted in June by the Provincial Educ. Dept. and in Sept. by the Univ. It is not necessary to pass completely at one time, and a candidate may enter on a Degree course, except in Law or Med., as a conditioned student. The subjects of Matricn. examn. for Arts or Science courses are English, Hist., Maths., Latin or Greek or French or German, a second language or 2 of the following—Physics, Chem., Genl. Science I, Genl. Science II.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comm. work. Exemption is allowed from examination for Matricn. standing in the subjects of Part I (Grades IX and X) Matricn. from pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical years, for Law standing of 2nd year in Arts, with Latin to the end, at least, of the 1st yr., and for Engineering standing of one pre-engineering year. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES 4 yrs—B.A , B Sc , B Sc (C E or E E) , B Sc (Phar.) , B Arch. , 3 yrs , following 2nd yr. in Arts or its equivalent—LL.B ; 5 yrs., following 2 pre-medical yrs—M D , 5 yrs—B A (Hons) , B.Sc. (Hons) , B S A , B H Ec , 8 yrs—combined B Sc-M D Graduates in Med of at least 2 yrs' standing with certain prescribed training and experience may obtain C M on passing written, oral, and practical examn , and presenting a satisfactory thesis

ATTENDANCE at lectures is obligatory for all except extra-mural students Extra-mural students may not take courses in Med , Sc , Arch , or Engin , or any course in Arts involving oral, practical, or lab work, nor may they appear at examns without permission of the Bd of Studies Extra-mural registration in Arts is limited to students resident in Manitoba, and a minimum of 1 yr's attendance at this or another approved Univ is exacted before the B A is conferred

The 1st yr of the B A course includes 5 subjects, of which English, Maths , and a foreign lang (already taken for matricn) are compulsory , the 2nd—5, including English, Hist , and the same lang One Science subject must be taken in the 1st or 2nd yr. unless both Physics and Chem were taken for matricn

The M A may be obtained by an extra year of full-time study under the direction of a committee of instructors A thesis is required as well as examn

The M Sc requirements are at least one yr's grad work in one or more of the Sc depts of the Univ (incl Maths) or in the dept of Civil Engin or that of Elect Engin , an examn and a thesis While taking the LL B course a student may simultaneously obtain the Law Society's qualification for practice Extra-mural courses may be taken by law students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ residing elsewhere The LL D is honorary

In the B Sc Engineering courses summer work and thesis relating thereto are required

2 yrs' service in an Architect's office following graduation (B Arch) will qualify for licence to practise

DIPLOMAS Pharm Chem (2 yrs' course) ; Agr (3 yrs) given by Man. Agric Coll In *Dentistry* the Univ is the sole examining body in the province The Univ conducts examns for admission to the Man Assocn of Graduate *Nurses*, to the practice of *Accountancy* and membership of the Inst C A of Manitoba, to the practice of *Architecture* and membership of the Man Association of Archts , also qualifying examns for the Man Civil Service

FEES Tuition and examn in Arts and Sc , \$60 p a , Engin and Arch , \$90 , Phm Dipl course, \$85 , Degree course (4 yrs) , \$60, \$85, \$85, \$85 ; Med , \$160 , Law, \$83 Licence to practise Med , \$100 Agr Dipl course, \$38 , Degree course, \$38 (1st and 2nd yrs) and \$63 (3rd, 4th and 5th yrs) ; Home Economics, Degree course, \$38, \$38, \$48, \$48, \$48 combined B Sc , M D course, \$60, \$60, \$160 (each of next 5 yrs) , and \$35 (8th yr.)

SCHOLARSHIPS for graduates \$600 p a for 2 yrs , open to graduates in special courses in Arts, in Med , or Engin , every alternate year, tenable at some other seat of learning ; Fellowship, \$500 awarded annually in Hist and Pol. Sc , Research Fellowship, \$1500 annually in Sc.

RESIDENCE Hostels at all affiliated Arts Colls and Agr Coll.

INTERCHANGE of teachers for a few days and conference annually with Univs. of N Dakota and Sask

UNIVERSITY EXTENSION (1) Winter Evening Business courses in Acctcy, Comml Law, Business English, Life Insurance, etc, given partly by members of regular Univ staff (2) Short courses of lectures, conferences, and class work for Retail Merchants, at Winnipeg and Brandon (3) Course in Rural Leadership under joint auspices of Univ, Agric Coll, and United Farmers of Manit (4) Short courses in Med and Surg for practitioners (5) Popular lectures in numerous centres (6) Radio popular lectures, weekly (7) Course for Public Health nurses (8) Summer School

PUBLICATIONS *Calendars* (July), General, Matricn, and several faculties, free, *Manitoban* (students' paper), weekly, *Annual Report*, Historical notes (1877-1917); *Inaugural and Convocation Addresses*, *Examn Papers*, \$1

THE YEAR 1922-23

BENEFACTIONS Govt Grant, \$315,000, Rockefeller Foundation, \$500,000 for medical education, Christina V K Morris bequest, \$1000 to found the "Hon Alex Morris" Exhibition in Law, H W Kennedy bequest, \$10,000 for Forestry, Khaki Univ and Y M C A Memorial Scholarship Fund, \$12,000

NEW POSTS Asst. Prof of Bio-Chem, Lectis in Engl, Hist, Classics

OTHER DEVELOPMENTS Summer School inaugurated, Alternative-General (4 yrs) and Honours (5 yrs) courses for B A and B Sc established

HONORARY DEGRFEE H E Bacon Byng, Govr-General, who visited the Univ on Oct 6, 1922

OTHER DEGREES B A, 138 (including women—62), M A, 9 (w—4), LL B, 35, M D, 20 (w—2), C M, 1, B Sc (C E), 11, B Sc (E E), 13, B Sc, 13 (w—6), B H Ec and B Sc (H Ec), 10 (women), B S A, 14 (w—1), M Sc, 1 (woman), M C E, 1, Dipl Phm, 18 (w—3)

RETIREMENTS J W Taylor, Assoc Prof E I Pope (apptd Prof of Internal Med at Univ of Alb), Asst Prof Flora Amos (apptd Asst Prof Wheaton Coll, Mass, succeeded by A S P Woodhouse from Harvard), F C Bell (apptd Supt Genl Hosp, Vancouver)—**DEATHS** Prof Gordon Bell B J McConnell (Med Jurispr)

STUDENTS Graduates Arts and Sc, 36 (including women—11), Med, 23, Engin, 1 Undergrads, full-time Arts and Sc, 1231 (w—477), Phm, 55 (w—4), Med, 264 (w—21), Law, 65 (w—2), Engin, 144, Archit, 9, Agr, 76, Home Ec (women), 64, part-time Arts and Sc, 46 (w—14), Med, 7, Archit, 3

UNIV EXTENSION Total enrolment, 874 Winter Evening Business courses, 305 students (9 instrs) Popular lectures delivered in Winnipeg, 68, in 46 other centres, 71 Broadcasted popular lectures, 10.

MONTREAL UNIVERSITY

PATRON—S E Cardinal G VAN ROSSUM

CHANCELLOR—S G Mgr P BRUCHÉSI, D Th , Archbishop of Montreal

RECTOR—Mgr V -JOSEPH PIETTE, P A

PRESIDENT—Sir LOMER GOVIN, LL D , K C M G

PRESIDENT OF THE EXECUTIVE COMMITTEE—Hon F L BÉRIQUE, LL D

VICE-RECTOR—Canon E CHARTIER, M ès A , L ès L , D Ph

SECRETARY-GENERAL—E MONTPETIT, B A , LL D , D S P Paris

TREASURER—O ARCHAMBAULT

LIBRARIAN—A FAUTEUX, B A

PROFESSORS, LECTURERS, ETC., October 25, 1923

<i>Agriculture</i> , v Affiliated Instns	Dombrowski, H , Ag des L Paris
<i>Anatomy</i> , v also Med His- tology	(Prof of French Lit) Prof
Mignault, L D , M D Prof	Maurice, O , D Th , L ès L Paris
Delorme, L N , M D Prof	Prof
Latreille, E , M D (A Path) Prof	<i>Commerce</i> , v Affiliated Instns
Violle, E , M D Lectr	<i>Dental Science</i>
<i>Applied Science</i> , v Affiliated Instns	Dubeau, E , D C D Prof *
<i>Art, History of</i>	Nolin, J , D C D Prof
Lagacé, J B , M A Prof	Gendreau, J G A , D C D Prof
<i>Biology</i> [Prof	Duhamel, J A , M D Prof
Dalbis, L J , D ès Sc Paris	Dufresne, G A H , M D. Prof
<i>Botany</i>	10 Profs agrégés, 3 Hony, 12 Clinicians and Demrs
Victorin, Marie, D Sc Prof	<i>Economics</i> , v Social Sciences
<i>Chemistry</i> , v also Affiliated Instns	<i>Engineering</i> , v Affiliated Instns
Baril, G H , M D Prof	<i>English Lang and Lit</i>
Morin, L J , M A , L ès Sc Paris	Atherton, W , LL D Prof
Prof *	<i>French Literature</i> , v Classics
Nadeau, H , L ès Sc Paris Lectr	<i>Geography</i> [Prof
Flahaut, J , L ès Sc Lille Lectr	Tessier-Lavigne, Y , L Sc Soc
Riou, P Lectr	<i>Geology</i> , v also Affiliated Instns
<i>Classics</i>	Mailhot, A , I C Prof
Chartier, Can E , M ès A , L ès L Paris Prof *	<i>Hebrew</i> , v Theol
	<i>History</i>
	Désy, J , LL L , D S P Paris
	Prof of Comm and Genl H

* Dean of the Faculty

Groulx, L, M A, D Th	Prof.	Rinfret, F (Journalism)	Prof
Aucoin, E., M A.	Lectr	Leduc, A, LL L (Journalism)	Prof
<i>Law, v infra</i>		Saint-Pierre, A	Lectr
<i>Mathematics, v also Botany</i>		4 Profs agrégés	
Beaupré, V E, B A, I C	Prof	<i>Theology</i>	
Léveillé, A, B A Lond	Prof	Allard, R, D Th	Prof
<i>Medicine, v infra</i>		Belcourt, E	Prof
<i>Mineralogy, v Applied Sc</i>		Dorvaux, J E, D Th, D Dr	Can
<i>Modern Languages</i>			Prof
Jasmin, H, D.Ph, D Th	Prof	Dubeau, A	Prof
<i>Music</i>		Duchemin, F, D Th	Prof
Charbonneau, J N		Filion, E	Prof
Head of Schola Cantorum		Gattet, B M, D Th	Prof
<i>Philosophy</i>		Gauthier, H, D Th	Prof
Perrin, L, D Th, D Ph, D D C,		Jeannotte, H J, D Th	Prof
M A	Prof *	Lesieur, R	Prof
Pineault, L, D Th, D Ph, M A	Prof	McShane, G, D Th	Prof.
		Many, V, D Th (Hebrew)	Prof
Forest, C, Ph M	Prof	Savignac, E, D Th	Prof
Gauthier, O, D Th, Ph D	Prof	Unique, A P, D Th *	Prof
Perrault, A, LL D, K C	Prof	Yelle, E	Prof
Lamarche, A, D Th, D Ph	Prof	<i>Veterinary Science</i>	
Vamer, G, B A, LL L	Prof	Daubigny, T, M V	
Hébert, E, D Th, D Ph	Prof	Director of the School &	Prof.
<i>Physics</i>		Généreux, D, M V	Prof
Gendreau, E, L ès Sc	Paris,	Lorrain, L P H, M V	Prof
Ph D, M D	Prof	Dauth, A, M V	Prof
Demers, J, B A	Lectr	6 Profs agrégés	
<i>Physiology</i>		<i>Law</i>	
Asselin, E G, M D	Prof	<i>Administrative and Munic L</i>	
<i>Social Sciences, Economics, and</i>		Baudouin, G, LL L.	Prof
<i>Politics, v also Geog, Hist,</i>		<i>Civil L</i>	
<i>and Law</i>		Demers, Hon L P, LL D,	
Montpetit, E., K C, LL D, D S P		J of High Ct	Prof
Paris		Lafontaine, Hon E, LL D,	
Prof of Econ, Pub Finance		Ch J Ct of App	Prof
and Statistics, Director of		<i>Civil Procedure</i>	[Prof
the School		Taschereau, R, LL D, K C	
Baudouin, J A, M D	Prof	Genest, R, LL L	Lectr
Dore, V	Prof	<i>Comm and Marit L</i>	
Vamer, G, LL L	Prof	Perrault, A, LL D, K C	Prof.
Pelletier, G, LL L (Journalism)	Prof	<i>Const L</i>	
Fauteux, N (Journalism)	Prof.	Cousineau, Hon P, LL D, J of	
		High Ct	Prof

* Dean of the Faculty.

MONTREAL

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<i>Criminal L</i>	[Prof	Benoit, E P., M D	Prof
Morin, L J S, LL D, K.C		Dubé, E, M D	Prof
<i>Financ, Comm'l, and Indust L</i>		Lesage, A, M D (M and Path)	Prof.
Pérodeau, Hon N, LL D	Prof.	Bruneau, T, M D	Lectr
Gouin, L M, LL D	Lectr	Lebel, H, M D	Lectr.
Gérin-Lajoie, A, LL D	Lectr	Léger, A, M D	Lectr (M & Path)
Faribault, R, LL L	Lectr	Robichaud, P, M D	Lectr
<i>Internat L and Hist. of L</i>		Riopelle, P E, M D	Lectr
Lemieux, Hon R, LL D, K C	Prof	Hamel, G, M D	Lectr
<i>Notarial Procedure</i>		Hébert, R, M D	Lectr.
Morin, V, LL D	Prof	Rouleau, A, M D	Lectr.
<i>Roman L</i>		Verner, L, M D	Lectr.
Beaulieu, E, LL D, K C	Prof	<i>Mental Diseases</i>	
<i>Medicine</i> (for subjects of the first 2 yrs —Anat, etc, v. <i>supra</i>)		Tétreault, A, M.D	Prof
<i>Bacteriology</i>		Lefebvre de Bellefeuille, G, M D.	Lectr.
Bernier, A, M D.	Prof	<i>Neurology</i>	
Aubry, H, M D	Lectr	Prévost, A, M D	Prof.
<i>Contagious Diseases</i>		<i>Obstetrics</i>	
Leduc, J, M D	Prof	De Cotret, E A R, M D	Prof
Delvecchio, P, M D	Lectr	Langevin, S, M D	Lectr.
<i>Deontology and History of Med</i>		<i>Ophth, Ot and Rhino-Lar</i>	
Fortier, L E, M D	Prof	Foucher, A A, M D	Prof
<i>Dermatology and Syph</i>		Boulet, R, M D	Lectr
Décarie, J D, M D	Prof	<i>Pathology and Clin Surg, v</i> also Med	
Archambault, G, M D	Prof	Parizeau, T, M D	Prof
Toupin, J R, M D	Lectr	Bourgeois, B, M D	Prof.
<i>Gynæcology</i>		Bernier, A, M D	Prof
Harwood, L de L, M D	Prof *	<i>Pediatrics</i>	
Ethier, A, M D	Prof	Masson, R, M D	Prof
Trudeau, R, M D	Lectr	Ferron, A, M D	Lectr
<i>Histology and Path Anat</i>		<i>Pharmacy</i>	
Dalbis, L J, D S Paris	Prof	Contant, J, D Phm	President of the School & Prof.
Jutras, L, M D	Lectr	Lecours, J. E W, L Phm	Prof
<i>Hygiene</i>		Laurence, A J, L Phm	Sec -Dir of the School & Prof
Valin, N, M D	Prof	Landot, H, L Phm	Prof
Baudouin, J A, M D	Prof.	Vadboncœur, E, L Phm	Prof
<i>Legal Med</i>		Quintin, A D, L Phm	Prof
Derome, G W, M D	Prof	Boutin, J, L Phm	Prof
<i>Medicine</i>		Flahaut, J, L ès S Lille	Prof.
Guérin, J. J, M D, M Ch, LL D.			
Dub, K.C St.Gr	Prof		

* Dean of the Faculty.

Pilon, H, L Phm	Prof	Hingston, D, M D	Lectr
4 Profs agrégés		Demers, A, M D	Lectr
<i>Phisiotherapy</i>		Gagnon, A, M D	Lectr
.. ..	Prof	Dufresne, E, M D	Lectr
Jarry, A, M D	Lectr	Derome, A, M D	Lectr
Verschelden, L, M D	Lectr	Saint-Pierre, A, M D	Lectr
		Derome, W, M D	Lectr
<i>Propædæutics</i>		Paré, A, M D	Lectr
Hébert, R, M D	Prof	Roy, J N, M D	Lectr
		Blagdon, L, M D	Lectr
<i>Radiology, etc</i>		Rhéaume, P Z, M D	Prof
Panneton, J E, M D	Prof	<i>Therapeutics</i>	
Pariseau, L, M D	Lectr	Masson, D, M D	Prof
<i>Surgery, v also Path</i>		Fortier, L E, M D	Prof
Mercier, O F, M.D	Prof	Bourgoin, J, M D	Prof
Marien, A, M D	Prof	Mignault, G E, M D	Lectr
Ethier, E, M D	Prof	<i>Toxicology</i>	
Saint-Jacques, E, M D	Prof	Derome, W, M D	Prof

AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka Director, R P Leopold 16 other Profs of *Ag Botany, Animal Biology and Hygiene, An Industry, An Pathology and Bacteriology, Apiculture, Arboriculture, Aviculture, Buildings and Accounts, Chem, Geol and Mineral, Fruit and Flower Gardening, Kitchen Gardening, Large-scale Farming and Machinery, Maths, Physics and Drawing, Souls, Zoology and Rural Economy* 8 other Supts of Practical Work

APPLIED SCIENCE, including Engineering and Architecture The École Polytechnique, which was founded in 1874, is subsidized by the Govt of the Province of Quebec and the principal Railways of the Dominion Principal, A Boyer 24 Profs of *Architecture, Chemistry, Drawing, Electricity, Electro-technics, Electrochem, Electro-met, Engineering—Civil, Elec, Mech and Sanit, Geodesy, Geology, Geometry, Heating, Hydraulics, Industrial Chem, Industrial Legisln, Indust Technology, Maths, Metallurgy, Mineralogy, Mining, Physics, Railways, Surveying, Thermodynamics, Ventilation* 14 Hon'y Profs

COMMERCE École des Hautes Études Commerciales Created by the Provincial Govt in 1907 Director, Prof H Laureys 17 other Profs of *Accountancy, Banking, Chemistry, Customs Legislation, Economics, English, French, Geography, History, Insurance, Italian, Law, Maths, Math Physics, Publicity* 3 Hon'y Profs

CONSERVATOIRE NATIONAL DE MUSIQUE Recently affiliated

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE Ten Colleges for boys are affiliated to the Univ under conditions providing for a 4 yrs' High School course followed by a 4 yrs' College or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ The École d'enseignement secondaire pour les Jeunes Filles provides similar College courses for girls organized in French, English,

and Special (Arts d'Agrément, Commerce, Pol. and Soc Econ, Domestic Science) sections

GENERAL INFORMATION (v. also p. 303)

Established, as a branch of Laval, Quebec, in 1878, with Faculties of Theology and Law, to which were added Medicine in 1879 and Arts in 1887. Since 1889 this Institution has been practically independent of, though receiving its degrees from, Quebec, and on Feb. 14, 1920, it was incorporated under its present name by an Act of the Provl Legislature. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical, and Political Sciences were formed, in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn and Studies, Univ Council and Exec Committee. Endowments \$4,000,000 from a national subscription (1920), \$1,000,000 from the Provl Govt, and \$1,000,000 from the Seminary of St Sulpice.

LIBRARY, 125,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

RADIUM INSTITUTE affiliated to L'Institut Pasteur (Paris). Director—Dr E Gendreau.

FACULTIES Theol (constituted by the Grand Seminary of St Sulpice), Philosophy, Law, Med, Letters, Sciences, Dental Science. Incorporated in the Univ are Schools of Vet Med, Pharmacy, and Social, Econ and Polit Science.

DEGREES AND DIPLOMAS Courses in the incorporated and affil. institns. include—a 4 yrs' course in the *Éc Polyt.* for the B. ès Sc. App, 3 yrs. in the *Éc de Méd Comp* for the D. en Méd Vet, 4 yrs in the *Éc. de Ch. Dent.* for the D. en Ch D, 4 yrs in the *Éc de Phm.* for the B en Ph and D. en Ph, 4 yrs in *Inst Agric d'Oka* for the B en Agr. and D. en Sc Agr.; 3 yrs in the *Éc des H E Comm* for a Diploma.

THE YEAR 1922-23

IMPORTANT OCCURRENCES Dept of Pub Instruction of France granted full equivalence for B A, and for Licences in Law, Letters, and Sciences of Montreal, and admission for Montreal graduates to examn for "Aggregation" Radium Institute (v *supra*).

NUMBER OF STUDENTS Theol, 300, Philos, 219, Law, 125, Med, 302, Pure Sciences, 67, Letters, 139, Dent Chir, 206, Vet Surg, 19, Pharm, 134, Soc Sc, 139, Engin, 123, Comm, 300, Agr, 108, Inst d'Ens Mod, 152, Music, 775, Household Sc, 283.

DEGREES CONFERRED In Theol, 29, Law, 22, Med., 70 (including women—7); Dent Surg, 73, Sciences, 37, letters, 37 (women—15), Philos, 1, Vet., 9, Phm, 17, Soc. and Polit Sc, 67 (including women—63), Ec Polyt, 13, Agr, 4, Comm, 19, Classical Colls, 194 (women—13), Music, 291 (women—132), Household Sc, 115 (women).

MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—B C BORDEN, D D , D C L.

PRESIDENT OF THE SENATE—G J TRUEMAN, M A , Ph D (Col)

SECRETARY AND LIBRARIAN—Prof F W W DES BARRES, B A

REGISTRAR OF THE FACULTY OF ARTS—Prof. W M TWEEDIE, M A

PROFESSORS, LECTURERS, ETC., October 1, 1923

<i>Biology</i>		<i>French and Greek</i>	
Fraser, R , B S	Guelph , M A	Delano, C C , Ph D	New York
Tor	Prof		
1 Asst		<i>Mathematics</i>	
<i>Chemistry</i>		Hunton, S W , B A	Lond , M A
Bigelow, H. E , Ph D	Harv Prof	<i>Philosophy</i>	
3 Assts		Liddy, R B , B D , Ph D	Tor
<i>Classics</i>			Massey Prof
	[Wood Prof	<i>Physics</i>	
Cohon, J W , Ph D	Princeton	MacGregor, D G , B A , B Sc	Ox
<i>Commerce and Economics</i>		Dawson, J C , B Sc	N.S Tech ,
Line, J , M A	Tor , B D , S T D	B Sc	Instr
<i>Engineering</i>		1 Asst	
McKiel, H W , B A , B Sc	Qu	<i>Theology</i>	
(Mech E.)	Prof	Line, J , M A	Tor , S T D Wes
West, F L , M A , B Sc	McG	Montreal	Allison Prof
	Prof	Watson, W G , B A	Tor , B D
2 Assts		Victoria (Hebrew and Engl	
<i>English Lang and Lit</i>		Bible)	Prof
Tweedie, W M , M A	Lond	DesBarres, F W W , B A	(Church
	Allison Prof	Hist)	Prof.

GENERAL INFORMATION (v. also p. 303)

The METHODIST CHURCH of Canada controls the administration, which is, however, conducted on strictly non-sectarian principles, a considerable number of the students belong to other religious denominations. The Univ. is named after C F. Allison, founder (in 1843) of "Mt. Allison Wesleyan Academy," the Trustees of which were, by an Act of the Legislature of N.B. in 1858, authorized to establish as a degree-conferring institution, "Mt. Allison Wesleyan College." This name was changed in 1886 to "Univ of Mt. Allison Coll" and in 1913 to "Mt. Allison Univ." In 1903 the McClellan School of Applied Science was opened in the Univ.

LIBRARY, 15,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Science, Theology, School of Applied Science.

DEGREE COURSES. 3 yrs., B.Mus., 4 yrs (from "Junior" Matricn.), B A, B.Sc. "Senior Matricn." Certifs (e.g N.S. Provl. High School, grade A) admit to 2nd yr of B.A. or B.Sc course, Prince of Wales Coll High Honour Diploma to 3rd yr V also p 307

HIGHER DEGREES. Open to B.A. of 1 yr.'s standing, M.A., 2 yrs., B.D.; to B Sc of 1 yr's standing, M Sc, Honorary, D D, LL D, D C L.

CERTIFICATES. Applied Science, 2 yrs' course (may be taken as part of 3rd and 4th yrs. of B A course); Finance and Com, 2 yrs; Probationers for Ministry, 3 yrs

RECOGNITION by other Univs. (v. pp., 327, 341)

FEES, tuition and registration, annual: Arts, \$85; Engin., \$120.

RESIDENCE. Accommodation in the Univ. for 130 men and 60 women students. Board and lodging, \$249 p a.

PUBLICATIONS *Calendar* (July); *Argosy* (students'), and *Mt Allison Record*, monthly

THE YEAR 1922-23

NUMBER OF STUDENTS Full-time, preparing for Bachelorship or Diploma, 187 (including women, 48), for M.A. or M Sc, 6, Occasional or Special, 75 (women, 61).

DEGREES CONFERRED B A, 25 (including women, 11), B Sc, 16, M A, 2, Engin Certif, 11, Theol Certif, 3

RESIGNATION (at the end of the year) President B C Borden

UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H M THE KING—THE LIEUT -GOVERNOR OF
NEW BRUNSWICK

CHANCELLOR—C C JONES, M A , Ph D , LL D

PRESIDENT OF THE SENATE—W S CARTER, M A , LL D , D C I..

REGISTRAR—HAVELOCK COY, M A

PROFESSORS AND LECTURERS, October 5, 1923

<i>Chemistry</i>	[Prof	<i>Law</i>	
Cameron, A , M A , B.Sc St And.		Richards, C D , B.A	
		Lectr (Contracts and	
<i>Classics and Anc. Hist</i>		Real Property)	
Raymond, W T , B A , B A.		Hughes, P J , B A	
Harv , LL D Dal	Prof.	Lectr (Torts, Crimes)	
<i>Engineering, v also Phys.</i>		Winslow, J J F , B A	
Turner, E O , S B Mass I Tech.		Lectr (Procedure)	
(Civil E)	Prof	At St John	
Stephens, J , M A , M A I Dub ,		McKeown, Hon H A , C J ,	
M I C E I (Mech E and		D C L	Dean of Faculty
Drawing)	Prof	McInerney, H O , M.A , B C L	
Claridge, B E , Ph B , M F Yale			Prof
(Forest Engineering)	Prof	15 Part-time Lectrs	
<i>English and Mod Hist</i>		<i>Mathematics</i>	
Harvey, E. L , B A Ox	Prof.	The Chancellor	Prof.
<i>Forestry</i>		<i>Natural History and Geol</i>	
Pulling, A V. S , B Sc. N Y State		Cox, P , B A , B Sc , Ph D	Prof
Coll For.	Prof	<i>Philosophy and Economics</i>	
<i>French and German</i>		Kierstead, W. C , Ph D Chic ,	
Klimpke, P , M A Yale	Prof.	M A	Prof
		<i>Physics and Elec Engin</i>	
		Baird, A F , M Sc	Prof

GENERAL INFORMATION (v. also p. 303)

The " College of New Brunswick " was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as " King's College," and merged in 1859 in the Univ of N B established in that year. A Faculty of Law was established in 1923 in St John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt appoints the Chancellor and a majority of the governing body, called the Senate, of which the Chief Supt of Education for the Province is *ex officio* President. The annual grant from Provincial revenues is \$25,000.

LIBRARY, 14,000 vols. **MUSEUMS**, Natural History (rich in birds). **LABORATORIES** Bot., Chem., Engin., Geol., Phys., Psych. **OBSERVATORY**. Telescope with 6" clear aperture.

DEPARTMENTS Arts, Applied Science (Engineering and Forestry), Law.

DEGREE COURSES. 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin or Forestry) 3 yrs, B.C.L. The "Senior" Matricn. (or equivalent) Certif admits to the 2nd year. The first 2 yrs in Engin. are arranged to suit candidates for licences as Land Surveyors.

HIGHER DEGREES. Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs', in Engin. or For. of 3 yrs.' standing, M.Sc.; to B.A. of 6 yrs' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L., D.Litt., D.Sc, LL.D. (Hon.).

RECOGNITION by other Univs. (v. pp. 288, 327).

FEES, tuition, annual Arts, \$70, Engin. or Forestry, \$100.

THE YEAR 1922-23

BENEFACTIONS \$50,000 from Province of N.B. and \$25,000 from City of Fredericton for Memorial Building, \$1500, Electrical Equipment, \$500, Books.

NEW BUILDINGS Memorial Hall, \$118,000, Convocation Hall, Chemistry and Physics laboratories.

NEW DEPARTMENTS Faculty of Law (v. under "General Information").

OTHER IMPORTANT OCCURRENCES Corner-stone of Memorial Hall laid by Governor-General on July 3. Graduates reunion, May 13-17.

NUMBER OF STUDENTS. Full-time, preparing for B.A. or B.Sc.—136 (including 30 women).

HONORARY DEGREES LL.D.—Hon Wm F Todd, Hon P J Vemot; Special Convocation, July 3. LL.D.—Governor-General Lord Byng.

OTHER DEGREES. B.A.—8, B.Sc.—25, M.A. and M.Sc.—5.

UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—H G The Archbishop of Ottawa

RECTOR—F X MARCOTTE, D D , D Ph

SECRETARY—A JASMIN, Ph D

TREASURER—A D MCGOWAN, B L

PREFECT OF STUDIES—J A. LAJEUNESSE, M A

PREFECT OF DISCIPLINE—R LEGAULT

PROFESSORS, October 1923

[a = Arithmetic, c = Classics, e = English, f = French, h = History,
m = Mathematics, p = Penmanship, r = Religious Knowledge]

Allard, O —f, h, r
Arsenault, A J —c, e, h, r
Beaulieu, J —f, h, m, p
Belleau, P H —r, Physics
Bergevin, L —c, r
Bouvet, J L, Ph B —c, r
Bradley, F —e, h, r
Brosseau, H D —e, f, h, m, r.
Cary, A —e, f, r, Econ
Chartrand, J —c, f
Choquette, F —c, r
Cornellier, P, B A, Ph D, Th D
—r
Côté, V —f, r
Desnoyers, A, Ph D —r
Dubé, H, Ph D, M Sc —m,
Physics, Astron
Dubois, N —c, m, r
Duchesneau, J C, B L —e, m
Fusey, A —c, f
Gagnon, L, Ph L, Th L —c, f, r
Gravel, J —c, f, r
Guertin, A —f, h, r
Guy, J —m
Hébert, J, Ph L, Th L —c, f, r.
Jacques, A —c
Jasmin, A —h, r
Julen, O —e, f, Geog, Steno-
graphy
Lahaie, R C, B A —c, e, f, h
Lajeunesse, J A, M.A —Nat Sc

Lamoureux, R, Ph D —r
Latulpe, E —a, r, Business
Leblanc, R —Philos
Leclerc, A —f, m
Lefebvre, J H —f, h
Legault, R —Business
Lemieux, H, B A —e, f, Geog, p
Lesage, L —m, p
McFarlane, J J M, B A —e, m
McMahon, R, B A, Ph L —c
Marchand, G, Ph D —r
Martel, G —m, r, Biol
Ménard, H —e
Morisseau, H —f, h, r
Paquette, A —f, r
Pelchat, J —h, m, r.
Pelletier, A —c, f
Perruisset, L, D Ph —h, Philos
Poulet, D, L Ph —Philos, r
Poupore, L —p
Proulx, R, B A —e, f, Geog, m, p
Quigley, F J —e
Renaud, E —Chem, m
Rhéaume, L —r
Sénécal, R —Business
Shirley, L —Geog, p
Simard, G —Eccl Hist
Véronneau, A, M A —c.
Verville, E, Ph L —f, m, r
Villeneuve, R., D Ph.—r

GENERAL INFORMATION (v. also p. 303)

The "College of Bytown," incorporated in 1849, changed its name in 1861 to "College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

LIBRARY, 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. **MUSEUMS** In the Univ.—Geol., access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. **LABORATORIES** Chem., Phys., Mineral.

DEGREES, ETC. B.A., M.A., B.L. (Lit.), B.Phil., B.Th., D.Th., LL.D. (Hon.), Lic. Phil., D.Phil., Lic. Th. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fourth to the Seventh "Forms," that of the first 3 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.A. exempts law and medical students from Prelim. Examns and entitles the former to a reduction of 2 yrs. of the ordinary 5 yrs.' course. The B.Th. and the L.Th. involve respectively 2 and 3 yrs.' study of Theology after the completion of a classical course, the B.Ph. and the L.Ph. respectively 3 and 4 yrs.' study after matricn. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

FEES For Tuition and Board Residence per half-year, \$300 Degrees from \$5 to \$75

RESIDENCE. Students whose homes are not in Ottawa are required to live in the Univ. building, where they are subject to strict discipline—*e.g.* no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

DEGREES GRANTED (1923) B.A., 12, B.Ph., 17, L.Ph., 15; B.Th., 4; L.Th., 2, Hon. Degrees, 3

NUMBER OF STUDENTS, 1922-23. Faculty of Theology, 69; Philos., 62, Arts, preparatory course, 770.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—Rt Hon Sir ROBERT L. BORDEN, G C M G , P C , K C
PRINCIPAL AND VICE-CHANCELLOR—R BRUCE TAYLOR, M A , D D ,
LL D

RECTOR—A E ROSS, C M G , B A , M D , LL D

VICE-PRINCIPAL—Prof J WATSON, M A , D D , LL D , D Litt

REGISTRAR AND TREASURER—W E McNEILL, M A , Ph D

DEPUTY REGISTRAR—ALICE KING

LIBRARIAN—NATHAN VAN PATTEN

DEAN OF WOMEN—Mrs W E McNEILL, M A

PROFESSORS, LECTURERS, ETC., November 1923

Accounting
Walker, C E , C A Asst Prof
Smalls, R G H , A C A „ „

Anatomy, v also Med —Obs ,
Surg
Matheson, D C , M B
Acting Prof

I Demr

Banking, v Pol Econ

Biology
MacClement, T W , D Sc Armour
Inst , M A Allan Prof
Klugh, A. B , M A Asst Prof
Earl, R O , B A Asst Prof
White, H C , B A Tutor & Demr
2 Tutors

Chemistry, v also Engin [Prof
Neish, A C , M A , Ph D Col
McRae, J A , M A , Ph D , F I C
Assoc Prof

Whyte, E F , Ph D Lectr
Cadenhead, A F G , B A Lectr
Dorrance, R L , B A Tor Lectr
12 Tutors

Chemistry, Biological
Lothrop, A P , M A Ober , Ph D
Col. Prof

Classics
Callander, T, M A Aberd and Ox
(Greek) Prof
Lofberg, J O , Ph D (Latin)
Assoc Prof
Jolliffe, R O , Ph D Chic (Latin)
Prof
Macdonnell, Mary L , M A Instr

Commerce, v also Accounting
Caldwell, H G , B A , B Com
Asst Prof

Economics, v Polit

Engineering, v also Mining
Macphail, A J , C M G , B Sc
(General E) Prof
Arkley, L M , M Sc (Mech E)
Prof
Goodwin, L F , Ph D Heid.,
A C G I , F I C (Indust and
Chem E) Prof
Wilgar, W P , B Sc (Civil E) Prof
Malcolm, L , M A , B Sc (Munic.
E) Prof
Jemmett, D M , M A , B Sc
(El E) Prof
Ellis, D. S , M. A , B.Sc (Civil E)
Assoc Prof

Bain, J W , M Sc McG (El E)
Lectr
Rutledge, L T , B A Sc (Mech E)
Assoc Prof
Jackson, A , B Sc (Draughting)
Asst Prof
Davis, R L , M S (El E)
Asst Prof
9 Tutors, 7 Demrs , 3 Instrs

English

Sandwell, B K , B A Tor Prof
Macdonald, J F , M A Prof
Roy, J A , M A Edin Asst Prof
Alexander, H , M A Liv , ,
Gordon, Miss W , M A Instr
6 Tutors

French, v also Rom

Campbell, P G C , M A Prof
Hicks, R K , B A Camb , M A
Harv Assoc Prof
Conacher, W. M , B A Lond
Asst Prof
McConnell, Mme B S Instr

Geology, v also Mineral [Prof

Baker, M B , B A , B Sc , F G S A.
Rose, B , Ph D Yale, B Sc
Asst Prof

German

Macgillivray, J , B A Tor , Ph D
Leip Prof

Hebrew, v Semitic

History

M'Arthur, D A , M A
Prof of H and Douglas
Prof of Colonial H
Prince, A E , M A Ox and Manc
(English H) Asst Prof
Watt, R , B A Ox Lectr

Italian, v Romance

Mathematics

Matheson, J , M A Prof
Gummer, C F , M A Ox Prof
Miller, Norman, M A , Ph D Harv
Assoc. Prof
Johnston, K. P., M.A , B Sc
Asst. Prof.

Newlands, Mrs , M A Instr
8 Tutors

Medicine, v *infra*

Metallurgy

MacKay, G J , B Sc Prof.
Drury, C W , B Sc , Ph D (Electro-
M and Research) Prof

Mineralogy

[Prof
Bruce, E L , B A , B Sc , Ph.D.
Rose, B , B Sc , Ph D
Asst Prof of M and Geol

Mining Engineering

Graham, S N , B Sc Prof

Philosophy

Watson, J , M A Glas , LL D
Glas and Tor , DD Knox,
D Litt Mich
Charlton Prof of Moral P
Ferguson, A S , M A Ox and St
And (Mental P) Prof
Varnum, D P , B A Fellow
1 Tutor

Physics

Clark, A L , B Sc W P I , Ph D.
Clark, Dean of Fac of App
Sc Prof
Baker, W C , M A (Expl P.) Prof
Chown Research Prof
Flammer, E , B Sc Calit , Ph D
Harv Asst Prof
Robertson, J K , M A Tor
Assoc Prof
Ball, W V , B A Sc Lectr
2 Tutors

Physiology

Melvin, G S , M D Aberd Prof
Ettinger, G H , B A , M D , C M
Lectr in P and Embryol
1 Fellow

Political and Econ Science

Skelton, O. D , Ph D Chic , M A
(Dean of Fac of Arts)
Macdonald Prof
Mackintosh, W A , M A
Assoc Prof of Pol Sc.
3 Tutors in Econ. and Banking

Romance Lang and Lit, v. also
French

Brovedani, J H, D ès L Rennes
Prof of Span & Ital

Semitic Langs and Lit [Prof
Jordan, W G., B A Lond, D D

Spanish, v also Romance
Scott, Mrs P A, B A Fellow

Medicine (for subjects of the first
2 yrs —Anat, etc, v *supra*)

Anæsthetics, v Surg

Bacteriology

Reed, G B, M A, B Sc, Ph D
Harv Prof

Hay, W D, M A, M D, C M
Lectr in Serology

Electro-Therapy, v Mat Med

Gynæcology

Mylks, G W, M D Prof

Materia Med

Quigley, J P, M A, M D,
M R C S Eng, L R C P
Lond (Lectr in Electro-
Therapy) Asst Prof

Med Jurispr and Toxicology

Boyce, H A, M D, C M
Lectr in J, Clin Asst
in Med

Farrell, J M, B A Lectr

Medicine and Clin Med

Connell, W T, M D, M R C S
Eng, L R C P Lond Prof

Gibson, W, M D
Assoc Prof of M

MacCallum, E C D, M D, C M.
McG Assoc Prof of M

MacGregor, R R, M D, C M
Asst Prof

Hopkins, B H, M B Tor Lectr
Jones, W A, M D Westn
Clin Asst & Historian.

Obstetrics

Williamson, A R B, M A, M D,
M R C S Eng, L R C P
Lond Prof

O'Connor, F J, M D, C M
Clin Asst & Demr in Anat

Ophth, Ot, Laryng and Rhin
Connell, J C, M A, M D Prof

Cays, F A, M D, C M Lectr
Connell, H C, B A, M D, C M

Clin Asst

Pathology

Miller, J, B Sc, M D Edin, D Sc
Birm Prof

Little, T R, M D, C M Asst Prof

Pædiatrics

[Clin Asst
MacGregor, R R, M D, C M

Pharmacology

Hall, D R, M D, C M Fellow

Psychiatry

Ryan, E, B A, M D, C M (Assoc
Prof of Surg) Prof

Cumberland, T D, M B Tor
Clin Asst

Surgery, v also Psych

Austin, L J, M Ch Camb,
F R C S Eng Prof of Clin S

Etherington, F., M D, C M G
Assoc Prof

Gardiner, R J, M D, C M
Asst Prof

Keyes, S J, M D, C M (Lectr
in Anæsthetics) Asst Prof

Sparks, J F, B A, M D, C M
Asst Prof of S and

Appl Anat
Bogart, I G, M D, C M

Assoc Prof

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE (Presbyterian) Principal and Prof. of
Church Hist and Hist of Dogma, S. W. Dyde, D.Sc, D.D., LL.D. 5 other
Profs.

GENERAL INFORMATION (v. also p. 303)

On the initiative of the Presbyterian Church a Royal Charter was granted in 1841 for the establishment of Queen's College, Kingston, funds being provided by grants from the Church and from the Govt. and by private benefactions. To the original Faculties of Arts and Theology were added, in 1854 Medicine, in 1907 Education, and in 1916, by amalgamation with the Univ. of the School of Mining founded in 1893, Applied Science. In 1912 the Faculty of Theology was separately incorporated as "Queen's Theological College" in affiliation with the Univ. but controlled entirely by the Presbyterian Church. In 1920 the Faculty of Educn. was discontinued, the students being transferred to the Teachers' Training College, Toronto. Endowments amount to \$1,800,000

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

LIBRARY, 95,000 vols (valuable Canadian Historical Section). **MUSEUMS** - Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American stone age collection). **LABORATORIES**, including important School of Mines buildings Biol. (accommodating 220 students), Chem., Geol., Physics, Engineering, Mining, Metall., Mineral. **OBSERVATORY** with 6" telescope. **HOSPITALS** available for clinics, 2 general 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

FACULTIES Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

DEGREE COURSES. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics), 6 yrs., M.D., C.M.

Combined courses. 6 yrs., B.A. and B.Sc., 7 yrs., B.A. and M.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence conducted by a staff of tutors. Attendance at the Univ. during at least one full session, or four full sessions of the summer school, must be given, and if much science is taken this minimum must be exceeded (v. also pp. 95, 248, 256, 257)

Banking Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition given by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certifi., is given by the Univ.

HIGHER DEGREES. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs. professional practice), Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.), D.P.H. (Doctor of Pub. Health), B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

DIPLOMAS Arts (3 yrs. B.A. extra-mural course); Testamur in Theology (3 yrs.' course).

FEES (Class and Examn.) in Arts, \$54 p.a., Science, \$102 to \$122.

RESIDENCE 3 Hostels for women. Board and lodging, \$8 to \$10 a week.

PUBLICATIONS. *Calendars* (by Faculties), *Queen's Quarterly*; *Queen's Univ. Journal*

THE YEAR 1922-23

NEW BUILDINGS Library, cost of which (over \$380,000) was provided for mainly from funds given by late Chancellor James Douglas, to be completed before next session when the administration offices will occupy it temporarily. A woman's Residence, costing \$160,000, half of which sum was raised by women graduates. Central heating plant (\$280,000), which serves not only all the Univ. buildings but also the Kingston General Hospital, was completed.

HONORARY DEGREES LL D—Dr. Banting, Principal W. L. Grant of Upper Canada College, Toronto, Julian C. Smith, Judge Cumberland, Prof. T. Seccombe. D D—Ernest Thomas, A. Govan.

OTHER DEGREES M A, 13 (including women—5), B A, 131 (w—60), B Com, 10 (w—2), B Sc, 116, M D, 39, B D, 4.

STUDENTS (Nov. 1923) Arts, 1360, including 752 extra-mural, Sc, 240, Med, 271, Banking course, 189, C A course, 221, Summer School, 423. Grand Total, 2704.

RESIGNATIONS Prof. J. R. Currie, to accept a position in Univ. of Glasgow, Research Prof. A. L. Hughes, to occupy Chair of Physics in Univ. of Washington, St. Louis, I. O. Saunders, Librarian, succeeded by N. van Patten from Mass. Inst. Tech., Asst. Prof. N. J. Symons, to accept position in Dalhousie Univ. DEATH Prof. T. Seccombe, succeeded by B. K. Sandwell from McGill.

UNIV. EXTENSION WORK Winter correspondence students in Arts faculty, 752, Summer School (July and Aug.), 423, programme of lectures by Univ. Profs. at various centres, Banking and Accountancy courses (v. *supra*).

CONFERENCE of Canadian Univs.—about 50 representatives.

UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—

Rt Rev J MORRISON, D D , Bishop of Antigonish

PRESIDENT-RECTOR—Very Rev H P MACPHERSON, D D , D C L

VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Prof H J MACDONALD,

M A , S T L Urb Rome

BURSAR—D C MACKAY

LIBRARIAN—Prof D J MACDONALD, Ph D

REGISTRAR--Prof P J NICHOLSON, Ph D

DIRECTOR OF STUDIES—Prof R K MCINTYRE, B Sc

PROFESSORS, LECTURERS, ETC , January 7, 1924

<i>Agriculture</i>	<i>Gaelic Lang and Lit</i>	
Tompkins, M N , B A , B Sc	Nicholson, P J , Ph D	Prof
Lectr		
<i>Biology and German</i>	<i>Geology and Engineering</i>	
Connolly, C J , Ph D Mun	McPherson, H , D D , Ph D	Urb
Prof	Rome	Prof
<i>Chemistry</i>	<i>History, v Engl</i>	
McIntyre, R K , M A , B Sc		
Cath Univ of Amer	<i>History, Ancient</i>	
Mullins, E , M Sc Cath Univ	MacDonald, H J , S T L	Prof
Asst Prof		
<i>Classics</i>	<i>Law</i>	
MacPherson, H P , D D , D C L	Macdonald, A , M A , Judge C C	Lectr
Prof		
Campbell, Blaise, B A	<i>Mathematics</i>	
Asst in Latin	O'Connor, F J , B A	Harv ,
<i>Economics</i>	B Sc M I T	Prof
Macdonald, D J , M A , Ph D	<i>Philosophy</i>	
Cath U A	Gillis, D C , Ph D , S T L	Urb
Prof	Rome	Prof
<i>Education</i>	<i>Physics</i>	
Coady, M M , Ph D , D D	Nicholson, P J , M A , Ph D J	Prof
Prof	Hopk.	
<i>English Lit and Modern Hist</i>	<i>Religion</i>	
Coyle, J P , M A	Boyle, T. O'R , D D	Lectr
Prof		
<i>French</i>		
[Prof		
Bonno, G , Ag de l'U de France		
Raiche, J F , M A		
Assoc Prof		

GENERAL INFORMATION (v. also p. 303)

The Univ was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The Univ. is under the direction of the Roman Catholic Church, but there are no religious tests for entrance or for degrees. The recent Neil McNeil bequest for endowment is valued at \$600,000. A further \$200,000 will become due on the death of beneficiaries now receiving interest.

LIBRARY, 30,000 vols. **LABORATORIES** Biol, Chem, Geol, Phys.

COURSES. 4 yrs., B A, B Sc; 2 yrs. Engineering (gives admission to leading technical colls of Canada and U S A); graduate 1 yr course for M A. (v also pp 307, 327, 341)

EXPENSES Board and dormitory, \$6 per week, private room, \$2 per week, tuition for session, \$85, laboratory, \$5 to \$7½, degree, \$5 to \$10

A "PEOPLE'S SCHOOL," open Jan to March (8 weeks), provides courses in various Arts, Pure Science, and Agric subjects. No educational test for entrance

PUBLICATIONS. *Calendar* (July); *Xaverian*, monthly

THE YEAR 1922-23

DONATION. \$3500

NUMBER OF STUDENTS 211

DEGREES CONFERRED B A, 22, B Sc, 3, M A, 2.

UNIV EXTENSION "People's School" attended by 150 students.

UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—HON W H NEWLANDS.

CHANCELLOR—SIR F W G HAULTAIN, LL D.

PRESIDENT—W. C MURRAY, M A , LL D.

REGISTRAR—A R. WEIR, B A

PROFESSORS, LECTURERS, ETC., October 30, 1923

<i>Accounting</i>	Ferguson, R M , B A T C.D.
Neilson, J , B Acc	Asst Prof
<i>Agriculture, v infra</i>	
<i>Bacteriology and Pathology</i>	<i>Economics</i>
Lindsay, W S , O B E , B A, Dal ,	Swanson, W W , M A Qu , Ph D.
M B Edin.	Chic Prof.
Rea, George, M B , Ch B , D P H	Carrothers, W A , Ph D Edin.
Belf Prof	Prof.
<i>Biology</i>	M'Queen, R , M A Alb Instr.
Thompson, W P., M A. Tor ,	<i>Education</i>
Ph D Harv Prof	The President, M A Edin , LL D.
Cameron, A E , M Sc Man , D Sc	Qu and Alb Lectr
Aberd Prof	Wilson, R. A , Ph D Qu Lectr.
Fraser, W P , B A Corn , M A	<i>Engineering, v infra</i>
Dal Lectr	<i>English</i>
Newton, Margaret, B A McG ,	Wilson, R A , Ph D Queen's Prof.
Ph D Minn Asst Prof	Lothian, J M , M A Glas Prof
Sleggs, G F , B Sc Liverp Instr	Bayer, Jean G , M A Dal
<i>Chemistry</i>	Asst Prof.
Thorvaldson, T , B A Man , Ph D	Weir, A R , B A
Harv Prof	Lectr in E and Maths
Manning, R J , B A. Tor., D Sc	Brown, Edith, B A Lond Instr.
Brist Prof	McKenzie, Edith J , B A. Sask.
Basterfield, S L , B Sc Lond ,	Instr
Ph D Chic Prof	[Prof
Grubb, A C , Ph D Chic	<i>French</i>
Asst. Prof	MacDonald, J A , M A Harv
Cameron, C N , M A , Ph D Chic	Muller, C. E , B A Lausanne,
Asst Prof.	B Sc Geneva Prof.
	Gallon, Geraldine, M A Chic. Instr.
	<i>German</i>
	Eaton, J W., M A Dub Prof.
	<i>Hebrew</i>
<i>Classics</i>	Munro, M. F , M A , B D Queen's
Sullivan, W G , M A. Dub. Prof.	Lectr.
Ramsay, W , B A Queen's Prof.	

History

Morton, A S, M A Edin Prof.
 Underhill, F H, B A Tor, M A.
 Ox Prof
 Simpson, G W, M A Tor
 Asst Prof

Household Science

Rutter, Ethel, Ph B Prof
 Patrick, Edith, B A. Tor, M A
 Col Instr

Law

[Dean & Prof
 Moxon, A, B C L Ox
 Hebert, J T, LL B Harv Prof
 Estey, J W, LL B Harv (Torts,
 etc) Lectr
 Sibbald, A S, M A Tor (Inter-
 pretn) Lectr
 Jordan, H L, B A Tor, K C
 (Munic L) Lectr

Mathematics

[Prof.
 Ling, G H, B A Tor, Ph D Col
 Dines, I L, Ph D Chic Prof
 Pyke, A J, M A Tor Asst Prof

Pharmacy

Campbell, Alex Prof
 Woods, Esh Instr.

Philosophy

Sharrard, J A, M A Tor Prof
 Bateman, J. V, B A T C D
 Asst Prof.

Physics

McGougan, A G, B A McGill,
 Ph D Yale Prof
 Harrington, E B, Ph D Chic
 Prof
 Henderson, G H, M A Dal,
 Ph D Camb Asst Prof

*Agriculture**Animal Husbandry*

Shaw, A M, B S A Tor Prof
 Winters, L M, M Sc Ames Prof
 Benson, W S, B S A Sask. Instr

Dairying

[Prof.
 Potts, A E, B Sc Edin., M.S A.
 Broby, S P Instr

Engineering, Agric

Greig, A R, B Sc McGill Prof

Hardy, A E, M S A. Ames Prof.
 Josephson, H B, B S A Sask
 Instr

Farm Management

Rutherford, W J, B S A Tor
 Dean & Prof

Field Husbandry

[Prof
 Champlin, M, M Sc Sth Dak
 Kirk, L E, B A, M S A Sask
 Prof
 Stevenson, T, B S A Instr

Horticulture

Patterson, C F, B A Tor, Ph D
 Ill Asst Prof

Poultry

Baker, R K, B A Man. Prof
 Maw, A J G, B S A McGill
 Instr

Soils

Hansen, R, M S Ill Prof
 Joel, A H, B Sc Mich Asst Prof

Veterinary Science

Hadwen, S, D V S McGill
 Research Prof
 Wright, N Lectr

*Engineering, v. also Agric**Ceramic E*

Worcester, W G Prof

Civil E

MacKenzie, C J, B E Dal,
 M C E Harv Prof
 Williams, G M, B Sc Neb Prof
 Spencer, R A, B Sc McG
 Asst Prof

Electrical E

[Instr
 Lovell, A J, B Sc E E Manlt

Mechanical E

Greig, A R, B Sc McG Prof.
 Fraser, I M, B Sc McG.
 Asst Prof

Extra-Mural Work

Raynor, J G, B S A Man
 Director
 Gordon, K W, B S A Man Asst
 De Lury, Abigail
 Dir of Home-makers Clubs
 Thompson, Esther, B A Man Asst

AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, establd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, W T. Hallam, M A, D D Courses for Testamur, Lic Th, B Th

St. CHAD's, Regina (Church of England).

PRESBYTERIAN COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D

COLLEGE OF PHYSICIANS AND SURGEONS; LAW SOCIETY, DENTAL COUNCIL; PHARMACEUTICAL ASSOCN, ASSOCN OF REGISTERED NURSES, VETERINARY ASSOCN, ASSOCN OF ARCHITECTS, INST OF CHARTERED ACCOUNTANTS

GENERAL INFORMATION (v. also p. 303)

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Science in 1909 and took over the educational work of the Agricultural Dept in 1910. These were developed under the name of "Colleges." Colleges of Law and Engineering were opened in 1913 and 1915. The site includes 1340 acres devoted to Agric Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost over \$3,000,000

Of the Board of Governors 5 members are elected by the Senate and 3 appointed by Govt, the President is a member. The Senate (19 members elected by graduates, who also elect the Chancellor, and 13 *ex officio*, including the Minister of Education) regulates educational matters, the administration of which is controlled for the Univ. as a whole by an Academic Council and within each College by the Faculty. The President is a member of each of these bodies, and no appointment or dismissal is made without his recommendation. The maintenance of the Univ. is partially provided for by assignments of revenue and half of the Dominion grant in aid of Agric. education. The annual budget exceeds \$500,000

LIBRARY, 28,000 vols. LABORATORIES. Chem, Phys., Biol., Bact., Engin., Agric. Engin., Farm (830 a.), Agric. Exper. Fields (450 a.)

FACULTIES Arts and Science, Agric, Law, Engineering, Pharmacy. School of Accounting

DEGREE COURSES. 4 yrs., B A, B.Sc, B Acc, B S.P. (Pharmacy), B.S.A. (Agric), B E (Engin.), LL.B. (3 or 4 yrs), combined B A and B S A, 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province

HIGHER DEGREES. Examn. open to Bachelors of 1 yr. standing—M A., M.Sc, M S A

DIPLOMAS AND CERTIFICATES. A 3-yr. course in Agric leads to the "Associateship in Agric" A 2-yr. certif. course is given in Pharmacy.

FEES. Tuition for degree course in Agric., \$36 p a, Engin., \$45; Acc, \$40 to \$60, Pharm, \$50; Arts and Sc., \$3 to \$6 each class.

SCHOLARSHIPS FOR GRADUATES One in Arts or Sc, \$100 p a; one in Engin, \$100, one in Law, \$50, one in Agric, \$800 p a

RESIDENCE. Hostels for 200 men and 30 women. Board and room fees, \$8 or \$9 a week.

UNIV. EXTENSION. In Farming and Home Economics short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 6 weeks' course in summer for teachers and others at the Univ. Bulletins, fairs and shows.

PUBLICATIONS. *Calendar* (April), *Agric. Bulletins*; *Sheaf*

THE YEAR 1922-23

NEW BUILDINGS. Chemistry, \$600,000, Presbyterian College, \$150,000

NEW POSTS Research Ptof of Animal Diseases, Asst Profs of Biol, Hist., and Chem, Instr in Economics

EXTENSION WORK in Agric through 150 Agric Societies, 19,000 members, Boys' and Girls' Clubs, 3500 members; 200 Women's Clubs, 5000 members

NUMBER OF STUDENTS Arts and Sc, 411 (including women—191), Accounting, 20, Law, 53, Engin, 54, Agric (a) degree, 81, (b) Assoc'ship, 74, Pharm, 50 (1 woman), Household Sci, 2, summer school, 282 (women—180), evening, 87 (w.—58), preparing for higher degrees, 12.

DEGREES, ETC, CONFERRED B A, 78 (including women—51), B Sc, 9 (w—2), LL B., 6; B S A, 15, B E, 3, B S P, 1, Assoc in Agric., 8; Dipl Phm, 31, H Sci, 2, M A, 7 (w—4), M Sc, 1, M S A, 2

RESIGNATION. I A Barnett

UNIVERSITY OF TORONTO

with which are federated

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THE UNIVERSITY OF TRINITY COLLEGE, TORONTO, and

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BURSAR—F A MOURÉ, Mus D.

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WARDEN OF HART HOUSE—J. B BICKERSTETH, M A

SUPT OF BUILDINGS AND GROUNDS—A D'O LE PAN, B A Sc

DIRECTOR OF UNIV. HEALTH SERVICE—G D PORTER, M.B.

MEDICAL ADVISER FOR WOMEN STUDENTS—EDITH GORDON, B A ,
M B., D.P.H.

PROFESSORS, LECTURERS, ETC., November 15, 1923

Accountancy
Ferguson, W. S

Lectr

Linell, E A., M D Manc , M B ,
Ch.B. Asst. Prof
21 Demrs

Anatomy, v also Biol
McMurrich, J P, M A , Ph D
J H U, LL D Mich Prof
Watt, J C, M A , M D
Assoc. Prof.

Architecture
Wright, C H C, B A Sc
Prof. (A and Drawing)
McConnell, A W., B A Sc
Assoc Prof.

Madill, H H, B A Sc Asst Prof
 Arthur, E R Lectr
 Dunington Grub, H B, B S A
 Cornell

Lectr (Landscape A)
 2 Instrs

Astrophysics [Prof
 Chant, C A, M A, Ph D Harv
 5 Demrs, etc

Bacteriology, v Med —Path

Bio-Chemistry
 Hunter, A, M A, B Sc, M B,
 Ch B Edin Prof
 Wasteneys, H, Ph D Col
 Assoc Prof

Benson, Clara C, Ph D
 Assoc Prof of Physiol
 Chem in Faculty of
 Household Sc
 4 Fellows, 1 Demr

Biology, v also Histol
 Bensley, B A, Ph D Col
 Prof (Zool)

Walker, E M, B A, M B
 Assoc Prof
 Huntsman, A G, B A, M B
 Assoc Prof (Marine B)
 Coventry, A F, B A Ox
 Asst Prof (Vertebrate
Embryology)

Clemens, W A, M A, Ph D Corn
 Asst Prof (Lymnobiology)

Dymond, J R, M A
 Asst Prof. (Syst Zool)

MacArthur, J W, A B Ober,
 M A Wabash, Ph D Chic
 Asst Prof (Genetics)

Bailhe, W H T, M A, M B
 Lectr (Mamm Anat)

Craigie, E. H., B A., Ph D.
 Lectr (Comp Anat and Neur)
 5 Class Assts and 1 Instr

Botany [Prof
 Faull, J H, B A, Ph D Harv
 Thomson, R B, B A
 Assoc Prof (Phan B)

Duff, G H, Ph.D. Lectr.
 Wright, Jessie G, Ph D Lectr
 2 Instrs, 6 Assts

Chemistry, v also Elec, Eng.
 Miller, W L, B A, Ph D. Munich
 (Physical C) Prof
 Allan, F B, Ph D (Org C) Prof
 Kenrick, F B, M A, Ph D Leip
 Prof

Rogers, L J, B A Sc Asst Prof
 Funnell, W S, M A Asst Prof
 Martin, W H, Ph.D Asst Prof
 Boswell, M C, M A Harv, Ph D
 (Org Chem) Assoc Prof
 9 Assts

Classics Greek [Prof (C)
 Hutton, M, M A Ox, LL D
 Robertson, J C, M A (Gk Lang
 and Philos)

W E H Massey Prof (V)
 Carr, H, B A, LL D (Gk and
 Hist of Philos) Prof (M)
 Hamilton, D E, M A, D Paed
 Assoc Prof (C)

Classics Greek and Latin
 Owen, E T, M A
 Assoc Prof (C)

Adams, S M, M A
 Assoc Prof (T)

Robertson, H G, B A, Ph D
 Chic Lectr (V)

Duff, D, M A, B D Edin
 Asst Prof (C)

Morley, Susan G, M A
 Lectr (T)

Pemberton, R E K, M A Ox
 Lectr (T)
 1 Instr (C)

Classics Latin
 Macnaughton, J, M A, LL D Qu
 Prof (C)

Smith, G Oswald, M.A Ox
 Assoc Prof (C)

Dale, E A, M A Ox.
 Assoc. Prof (C).

De Witt, N W, B A, Ph D Chic
(Latin Lit) Prof. (V)
Kirkwood, W A, M A., Ph D
Harv Prof (T)
Woodcock, J N, M A Ox
Prof (T)
McBrady, R Prof (M)
Walsh, J B, M A Cath U A
Assoc Prof. (M)
St John, M, B A Lectr (M)

Drawing, v also Archit
Cockburn, J R, B A Sc
Assoc Prof (Descr Geometry)
Smither, W J, B A Sc Asst Prof
Wright, W J T, B A Sc Lectr
8 Demrs, 2 Instrs

Economics, v Pol Econ

Education, v also Household
Sc, Music
Pakenham, W, B A, LL D
Prof (School Admin)
Sandiford, P, M Sc Manc, Ph D
Col Prof (Educ Psych)
Cornish, G A, B A Assoc Prof
Crawford, J T, B A Assoc Prof
Ferguson, W C, B A

Assoc Prof
Jones, Geo M, B A Assoc Prof
Coombs, F E, M A Asst Prof
Macpherson, W E, B A, LL B
Qu Asst Prof
Carlisle, J O, M A Asst Prof
Perry, S W, B A
Lectr (Art & Com Wk)
Scarrow, A N
Lectr (Manual Train)
Halbus, F, B A McM Lectr
12 Instrs

Electro-Chemistry [Assoc Prof
Burt-Gerrans, J T, M A, Phm B
3 Assts

Embryology, v Histol, Biol

*Engineering, Chemical, and
Applied Chemistry*
Bain, J W, B A Sc Prof

Ardagh, E G R, B A Sc.
Assoc Prof
Lucas, G H W, Ph D Lectr
4 Demrs

*Engineering, Civil, and Applied
Mechanics*

McGowan, J, B A, B A Sc
Prof (App Mech)
Gillespie, P, M Sc, C E Prof
Young, C R, B A Sc, C E

Assoc Prof
Laing, A T, B A Sc
Assoc Prof (Highways)
Loudon, T. R, B A Sc

Assoc Prof
Bennett, S G, M C, B A Sc
(Comm Eng) Lectr
Seymour, H L, C E
Lectr (Town Planning)
2 Instrs

Engineering, Electrical

Rosebrugh, T R, M A Prof
Price, H W, B A Sc Prof
Zimmer, A R, B A Sc Asst Prof
Guest, W S, B A Sc Lectr.
Duncan, W C C, B A Sc Lectr
8 Demrs

Engineering, Mechanical

Angus, R W, B.A Sc Prof
Allcut, E A, M Sc Birm
Assoc Prof (Thermodyn)
Parkin, J H, B A Sc, M E
Asst Prof (Design)
Taylor, R, B A Sc
Asst Prof (Hydraul)
Tuttle, H A, B A Sc
Lectr (Thermodyn)
Holland, U C, B A Sc
Lectr (Machine Des)
5 Demrs

Engineering, Metallurgical

Guess, G A, M A Qu Prof
Ellis, O. W, M.Sc Birm Asst Prof
Toomer, J. E, B.S. Lectr.

Engineering, Mining

Haultain, H E T, C E Prof

King, J T, B A Sc. Asst Prof
 Dyer, F C, B A Sc Asst Prof
 2 Demrs

English, v also Philos

Alexander, W J, B A Lond,
 Ph D J H U, LL D Qu
 Prof (C)

Wallace, M. W., B A, Ph D Chic
 Prof (C)

Knox, R S, M A Aberd, B A
 Ox Assoc Prof (C).

Davis, H. J, M.A. Ox
 Assoc. Prof (C)

Clawson, W H, B A N Br, M A,
 Ph D. Harv Asst Prof (C)

Kirkwood, Mossie M, Ph D.
 Lectr (C)

Wookey, Gladys E, B A
 Lectr (C)

2 Instrs
 Edgar, O P, B A, Ph D J H U
 Gooderham Prof (V)

Auger, C E, B A Prof (V)

Pratt, E J, Ph D Lectr (V)

Simpson, H C, B A Ox, M A
 Tor & Harv

Prof (E Lit) (T)

Hodgins, L C A, M A Harv
 Assoc. Prof (T)

Cartwright, Mabel, B A
 Lectr (T)

Child, P A, M A Harv
 Lectr (T)

Margarita, M M, B A
 Lectr (M) (Anglo-Saxon)

Athanasia, M. M, M A. Lectr (M)

Lectrs for Med Students

Daniher, E L, B A

Van Every, J F, B A

Ethnology, v Philos

Forestry

Howe, C D, M.S Ver, Ph D
 Chic Prof

Millar, W N, B Sc Penn., M F
 Yale Assoc Prof

White, J H., M A, B Sc F., Ph D
 Assoc Prof

Dwight, T. W., B Sc F., M F.
 Yale Assoc Prof

1 Asst

French

Cameron, J H, M A Prof (C.)

Will, J S, B A, Ph.D Col.
 Prof (C).

De Champ, St E, B ès L Lyons,
 O I P Assoc Prof (C)

Jeanneret, F C A, B A
 Assoc Prof (C)

Morand, M, L ès L, Agrégé de
 l'U Assoc Prof (C).

McKellar, H S, B A
 Asst Prof (C)

Allen, L, Ph D Chic
 Asst Prof (C)

Anderson, J G, B A Man, A M,
 Ph D Col Lectr (C)

McAndrew, W J, M A
 Lectr (C)

3 Instrs

Ford, H E, M A, Ph D Col.
 Prof (V)

De Beaumont, V, M A Col
 Assoc Prof (V)

Lacey, A, M A Lectr (V)

Rowell, Mary C, B A Lectr (V)

Lasserre, H, B ès L, B ès Sc,
 L en Dr Spl Lectr (V)

Kittredge, R E L, M A Harv
 Prof (T)

Norton, A A, B A Camb
 Lectr (T)

Bisson, L A, M A Ox Lectr (T)

Murray, W H, B A
 Assoc Prof (M)

Agnes, S M, B A Lectr (M).

Estelle, M. M, M A Lectr (M).

3 Instrs (C), 1 Instr (V), 2
 Instrs (T), 1 Instr (M)

Geology

Parks, W A, Ph D Prof.

Moore, E S, M A, Ph.D. Chic.
 (Economic G) Prof.

MacLean, A, B A Assoc Prof
 4 Class Assts.

German, v also Philol, Psych
Needler, G H, B A, Ph D Leip.
Prof (C)

Fairley, B, M A Leeds, Ph D
Jena Assoc Prof. (C)

Hedman, T, Ph B Chic
Asst Prof (C)

Holt, G E, M A, Mus B
Lectr (C)

Lang, A E, M A Prof (V).

Addison, Margt, B A Lectr (V)

Robins, J D, M A. Lectr (V)

Young, A H, M A, D C L
Prof (T)

Scott, Miss L C, M A Lectr. (T)

Welty, E J, B A Western
Assoc Prof (M).

Perpetua, S M, B A Lectr (M)

Hebrew

Rollo, W, M A Aberd. Lectr (T)

Histology and Embryology

Piersol, W H, B A., M B Prof

History, v also Orient Langs

Wrong, G McK, M A, LL D
McG. Prof

Smith, G M, M A Ox
Assoc Prof

Flenley, R, M A Liv, B Litt Ox
Assoc Prof

Wrong, H H, B A Ox Asst Prof

Brebner, J B, B A Ox. Lectr

Kennedy, W P McC, M A Ox,
Litt D Dub (Spl Lectr in

Pol Econ) Asst Prof

Pearson, L B, B A Ox Lectr.

Reid, Marjorie G, B A, B Litt.
Ox Lectr

Wallace, W S, M A Ox
Spl. Lectr

History, Ancient

Milner, W S, M A (Greek and
Roman H) Prof. (C)

Cochrane, C N, M A Ox
Assoc Prof (C)

Brown, A Grant, M.A. Ox
Asst Prof (C).

Sissons, C. B, B A

Nelles Prof (V)

Duckworth, H T. F, M A Ox
Prof (T)

History of Industrial Art

Currelly, C T, M A Prof

Harcum, Cornelia, B A., Ph D.
J H U Asst Prof

Household Science, v also Bio- Chem [Assoc Prof

Laird, Annie L, M S Drex

Stewart, Lois K, B S Kan, M S.
Wisc Asst Prof

Coatsworth, Helen R, B A Lectr

McMillan, Eva M, Ph B Chic
Lectr

Ockley, Laura L, B A
Asst Prof in Coll of Educ

2 Instrs

Italian and Spanish

Buchanan, M A, B A, Ph D
Chic Prof

Shaw, J E, A B, Ph D J H U
Prof

Goggio, E, A B, Ph D Harv,
M A Asst Prof

Patterson, G C, B A Asst Prof

Cano, J, A B Tol, A M Col
Asst Prof

Hilborn, H W, B A Lectr

Law

Black, T H, M A., B Sc, LL B.
Glas (Roman L & Jurisp)
Prof

Clute, A R, B A, LL B Lectr.

Foster, H W A, LL B Lectr.

Mathematics

De Lury, A T, M A Prof

Fields, J C, B A, Ph D J H U,
F R S Research Prof

Mackenzie, M A, M A Camb
Prof

Beatty, S, Ph D Assoc Prof

Pounder, I R, M A Asst Prof

Synge, J L, M A Dub
Asst Prof

Stevenson, A F C , B A Camb
Lectr
Robinson, D A F , M A Lectr
i Instructor and 3 Fellows

Mechanics

Loudon, W J , B A Prof
Sheppard, N E , M A Lectr

Medicine and Surgery, v infra

Military Studies

Lang, W R , D Sc Glas Director
Cartwright, G S , C B , C M G
Spl Lectr

Mineralogy

Walker, T L , M A Qu , Ph D
Leip Prof
Parsons, A L , B A N Y
Assoc Prof
Thomson, J E , B A Sc
Asst Prof

i Asst

Mining, v Engin

Music

Fricker, H A , M A , Mus D
(Choral and Orch M) Lectr
Ham, A , Mus D (Church M)
Lectr
Mouré, F A , Mus D (Hist of M)
Lectr
Willan, H , Mus Doc (Theory
of M) Lectr
Bramfitt, G N , B A
Lectr (Coll of Educ).

Oriental Lang , v also Hebrew

Taylor, W R , Ph D Prof (C)
Meek, T J , B A , B D , Ph D
Chic Prof (C)
Irwin, W A , M A , D B Chic
Asst Prof (C)
McLaughlin, J F , B A , D D
(Langs and Lit)
Massey Prof (V)
Hooke, S H , M A Ox , B D
Lond (Spl Lectr in Hist)
Flavelle Prof (V)
Potter, W A , M A , B D
Assoc Prof (V).

Philology

Horning, L E , B A , Ph D Gott
(Teutonic P) Prof (V)

Philosophy, v also Classics

Hume, J G , B A , A M Harv ,
Ph D Frei (Baden) (Hist
of P) Prof
Brett, G S , M A Ox Prof
Robinson, T R , Ph D

Assoc Prof

i Asst

Tracy, F , B A , Ph D Clark
(Ethics) Prof (C)
Lane, W B , M A , Ph D Wisc
(Ethics) Ryerson Prof (V)
Brown, W T , M A , Ph D Harv
(Ethics) Assoc Prof (V)
Kingston, G F , M A , B D
King's, Ph D (Ethics)
Assoc Prof (T)

Windle, Sir B , M A , M D , Sc D ,
LL D , F R S (Spl Lectr
in Ethnology in the Univ)
Prof (M)

De Wulf, M , M A , Ph D , LL D
Louvain

Prof (Mediæval P) (M)

Meador, F D , B A

Prof (Ethics) (M)

McCorkell, E J , B A , M A
Cath U Am (Assoc Prof of
English)

Prof (Social Ethics) (M)

Bellisle, H S , B A , M A
Cath U Am (Logic)

Prof (M)

Hurley, A E , S T L (Theodicy)
Prof (M)

Sullivan, B , M A. (Soc Eth)
Lectr (M)

*Physics, v also Astro-
Mechanics*

McLennan, J C , O B E , Ph D ,
D Sc , LL D , F R S Prof

Burton, E F , B A Camb , Ph D
Assoc Prof

Satterly, J , M A Camb , D Sc
Lond Assoc Prof.

Gilchrist, L, M A, Ph D Chic.

Asst Prof.

McTaggart, H A, B A Camb, M A

Asst Prof

10 Demrs, etc

Physics and Photography

Anderson, G R, M A

Prof

1 Instr, 1 Demr

Physiology, v also Bio-Chem

MacLeod, J J R, M B, Ch B

Aberd, D P H Camb, F R S

Prof

Olmsted, J M D, M A Ox,

Ph D Harv Assoc Prof

Taylor, N B, M B Asst Prof

8 Fellows and 2 Demrs

Political Economy, v also Hist

MacIver, R M, M A, D Phil

Edin, B A Ox Prof

Fay, C R, M A Camb, D Sc

Lond (Econ Hist) Prof

Jackman, W, M A (Rural Econ)

Assoc Prof

Jackson, G E, B A Camb

Assoc Prof

Innes, H A, M A. McM, Ph D

Chic Lectr

Kemp, H R, M A Lectr

Bladen, V W, B A Ox Lectr

Dobbs, S P, B A Camb Lectr

Psychology

Bridges, J W, B A McG, A M,

Ph D Harv Assoc Prof

Bott, E A, B A Assoc Prof

Banham, Katharine M, B Sc

Manc Lectr

1 Class Asst

Roach, W J, B A Prof (M)

McDonagh, V A, M B Lectr (M)

Public Health Nursing [Director.

Russell, Edith K, B.A King's

Clarke, E K

Spl Lectr (Mental Hyg)

Phair, J T

Spl Lectr (School Hyg)

Seccombe, W, D D S

Spl Lectr (Oral Hyg)

Sparrow, C M D

Spl Lectr (Pub Speak)

Stapleford, F N, B A

Spl Lectr (Social Wk)

Cowan, Kate S, Supervisor of

Field Work

Public Speaking

Greaves, W H Spl Lectr

Religious Knowledge, v *infra*,

Federated Univs and Colls

Social Service

Dale, J A, M A Ox

Prof Soc Science.

McGregor, Agnes

Director of Field Work

Macmillan, J W, B A, D D

Prof (V)

Spanish, v *Italian*

Surveying

Stewart, L B (S and Geodesy)

Prof

Treadgold, W M, B A

Assoc Prof

Crerar, S R, B A Sc Asst Prof

Banting, E W, B A Sc

Asst Prof

Melson, J W, B A Sc Lectr

Zoology, v *Biology*

Zymology [Assoc Prof

Speakman, H B, M Sc Manch.

Medicine (for subjects of the first

2 yrs —Anat, etc, v *supra*)

Bacteriology, v *Path*

Gynæcology, v *Obst*

Hygiene

Fitzgerald, J G, M D Prof

Defries, R D, M B, D P H

Assoc Prof

Fraser, D T, B A, M B, D P H.

Asst Prof

Porter, G D, M B

Lectr

4 Demrs, 1 Asst

Medical Jurisprudence

Silverthorne, G, M B. Prof.

Medical Research

Banting, F. G., M D Prof

Medicine and Clinical Medicine,

v also Path

Graham, Duncan A L, M B Prof

Fotheringham, J T, C M G,

B A, M D, C M, LL D

Assoc Prof

Smith, D K., M B Asst Prof

Howland, G W, B A, M B

Asst Prof

Oille, J. A, M D Asst Prof

Clarkson, F. A, M B Asst Prof

Assoc Profs of Clin Med

Chambers, G, B A, M B

Goldie, W, M B

Thistle, W B, M D

Anderson, H B, M D, C M.

5 Associates, 28 Demrs, 1 Fellow

Obstetrics and Gynaecology

Hendry, W. B, B A, M B Prof

McIlwraith, K C, M B

Assoc Prof

Marlow, F W, M D, C M

F R C S Eng

Assoc Prof (Gynæc)

Cleland, F A, B A., M B

Asst Prof

Wesley, R W, M B Asst Prof

4 Associates, 4 Demrs, 1 Fellow

Ophthalmology [Prof

MacCallum, J M, B A, M D

Lowry, W. H., M D, C M

Asst Prof.

MacIennan, D N., M D, C M.

Asst Prof

4 Demrs

Oto-Laryngology

Goldsmith, P G, C B E, M D,

C M

Prof

Royce, G, B A, M B Assoc Prof

2 Associates, 5 Demrs.

Pathology and Bacteriology

Klotz, O, M B, M D, C M

McGill

Prof

Anderson, H B, M D, C M

(Assoc Prof Clin Med)

Prof Clin Path

Matland, H B, M D Asst Prof.

Magner, W, M.D, D P H. Lectr.

Robinson, W. L., B.A. McM,

M B

Lectr

Eagles, G H, M D Lectr (Bact)

3 Fellows, 5 Demrs

Pathological Chemistry

Harding, V J, D Sc Manc Prof

Hunter, G, M A, B Sc (Agric)

Glas

Lectr

2 Fellows and 4 Demrs

Pediatrics

Brown, A, M B Assoc Prof

1 Associate, 7 Demrs

Pharmacy and Pharmacology

Henderson, V E, M A, M B

Prof

3 Demrs, 5 Assts

Psychiatry

Clarke, C K, M D, LL D Prof

1 Associate.

Radiology

Richards, G E, M B Assoc

Surgery and Clinical Surgery

Starr, C L, M B, M D Bellevue,

N Y, LL D McM

Prof (Surg)

Primrose, A, C B, M B, C M

Edin

Prof (Clinical S)

Bruce, H A, M D, F R C S Eng

Prof (Clinical S)

Perfect, A H, M B

Asst Prof (Surg)

Assoc Profs of Clin Surg

McKeown, P W H, C B E, B A,

M B

Starr, F N G, C B E, M B,

M D, C M

Asst Profs of Clin Surg:

Galhe, W E, M D, F R C S.

Jones, W W, B A, M B,

F R C S

6 Associates, 25 Demrs, 1 Fellow.

Therapeutics

Rudolf, R D, C B E, M D, C M

Edin

F R C P Lond Prof.

Johnston, S., M D

Lectr (Anæsth).

1 Fellow, 8 Demrs.

COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. Hutton, M.A., LL.D., Registrar—G. O. Smith, M.A.

VICTORIA COLLEGE. The Faculty of Arts of Victoria Univ., v. *infra*.

TRINITY COLLEGE. The Faculty of Arts of the Univ. of Trinity College, v. *infra*

ST MICHAEL'S COLLEGE Superior—Prof H Carr, B.A., LL.D., Registrar—Rev E. J. McCorkell, M.A. Other Teachers the Profs, etc, marked (M) in above list.

FEDERATED COLLEGES

ST MICHAEL'S, v. *supra*

KNOX COLLEGE and WYCLIFFE COLLEGE Teachers giving instruction in Univ courses (*Religious Knowledge*) (1) Knox—R. Davidson, Ph.D.; A. Gandier, M.A., D.D., J. T. McNeill, M.A., Ph.D., W. Manson, M.A., D. M. Ramsay, D.D. (2) Wycliffe—W. R. R. Armitage, M.A., B. W. Horon, M.A., B.D., E. A. McIntyre, M.A., B.D., T. R. O'Meara, D.D., LL.D., C. V. Pulcher, M.A., D.D., W. E. Taylor, M.A., Ph.D.

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH President—J. B. Reynolds, M.A. 19 Profs, 9 Assoc Profs, and 15 Lectrs 18 Demrs and Instrs

ROYAL COLLEGE OF DENTAL SURGEONS, TORONTO Dean—W. Seccombe, D.D.S., Secy Treas—W. E. Willmott, D.D.S., Registrar—R. G. McLean, D.D.S. Faculty—19 Profs, 7 Assoc Profs, 7 Lectrs, 6 Clinicians; 30 Demrs

ONTARIO COLLEGE OF PHARMACY, TORONTO President of Council—Burwell Griffin, Registrar-Treasurer—W. R. Graham Faculty—4 Teachers

ONTARIO VETERINARY COLLEGE, GUELPH Principal—C. D. McGilvray, D.V.S.

ALBERT COLLEGE, Belleville, ALMA COLLEGE, St. Thomas, ONTARIO LADIES' COLLEGE, Whitby, ST. HILDA'S COLLEGE, TORONTO (the Women's Residence for Trin Coll)

GENERAL INFORMATION (v. also p. 303)

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ, but it was not until 1843 that the College was inaugurated. In 1849 its title was changed to The University of Toronto. It was reorganized in 1853 as an examining and degree-conferring body on the model of the Univ. of London. In 1887 it again became a teaching body, the Faculties of Medicine and Law which had been abolished prior to the reorganization of 1853 were revived, the Arts work was divided between the Univ. and Univ. College, and provision was made for the admission of other institutions as Federated Colleges. Victoria, Trinity, and St. Michael's Colleges became integral parts of the Univ. in 1892, 1904, and 1907 respectively.

LIBRARY, 187,426 vols. and 63,327 pamphlets. Annual Grant for books, \$27,000; 1600 periodicals received. The (Science) Library of the Roy. Can.

Inst. is housed in the same building MUSEUMS Anat, Geol, Mineral; Trinity has a Nat Hist and Archæol Museum of its own, the Agric and Vet. Colleges, Knox, and the School of Dentistry have each one The Ontario Provincial Museums of Archæol and Nat Hist are in the vicinity LABORATORIES very extensive in all depts of Applied Science and Engineering as well as Anat, Biol Chem, Geol, Household Sc, Path, Physics, Physiol, described in *Bulletin* for Graduate Students BOTANICAL GARDEN OBSERVATORY HOSPITALS available for Clinics General, 700 beds, Children's, 262, St Michael's, 400, Western, 120

FACULTIES Arts, Medicine, Applied Science and Engineering (Depts — Archit, Civil E, Mining E, Mech E, Chem E, Elec E, Metall E), Education, Forestry, Household Sc, Music, School of Graduate Studies DEPARTMENTS Social Service, Public Health Nursing

UNIVERSITY MATRICULATION BOARD As a result of a conference of representatives of the Univs of Toronto, Queen's, McMaster, and Western Univ, London, held in Dec 1908, the Senates of these Univs created a Board to conduct and control their annual Matricn examns The Dept of Educn of Ontario agreed to provide the same machinery for holding these examns as it employs for the Departmental examns, and the Registrar of the Dept is Secy of the Board In connexion with the Pass Junior Matricn examn a report signed by all members of the staff of the school concerned as to the standing of their candidates is taken into account in determining the results

The subjects of Pass Matricn are (1) Latin, (2) English, (3) History, (4) Maths, (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chemistry For Matricn in Arts it is necessary to pass in (1) to (4) and any two of (5) to (9) with honour standing in at least 2 subjects for admission to the Pass Course, and in at least 5 specified subjects for admission to an Honour Course In certain cases foreign students may substitute their native language for Greek or French or German

For Matricn in the Univ of Toronto in Med the requirements are (1) to (4), (9), and any one of (5) to (8) with honour standing in (2), (4), and one of (5) to (8), in Applied Sc or Forestry—(2), (3), (4), and any three of (1) and (5) to (9) with honour standing in (2), (4), and one of (1), (5) to (8), in Music—(2) and any two of (1), (5), (6), (7), (8)

Minimum age for admission to the Faculty of Arts, 16, Law, 21, Med, 17; Appl Sc, 17, Educ, 19, Forestry, 17

DEGREE COURSES 4 yrs—B A, B Com, B A Sc, B Arch, B Sc (Med), B.Sc F, B S A and B V Sc (at Guelph), Phm B, 3 yrs—Mus B, 5 yrs.—D D S; 6 yrs—M B Combined courses B A and M B—7 yrs, M B. and D D S—7 yrs.

Certificates of having passed certain examns of the standard of the Oxford and Cambridge Local School Certif. may enable a student to enter at the second year the B A Pass course (but not an Honours course except in Polit Sc or Philos., provided he is not less than 17 yrs of age

Honour courses for the B A are provided in Household Science and in Science for teachers, the B Aed being a post-graduate degree.

The first 2 yrs. of the Law course may be taken in Arts in the Univ., the 3 remaining yrs being taken at Osgoode Hall

The B Sc (Med) may be obtained by Med students who, after the 4th or subsequent year of Med study, having maintained therein a prescribed standard of proficiency, spend a year in courses in the introductory Med sciences, and show facility in reading one modern language besides English

A student who has already graduated in the Faculty of Arts, Med, or

Science of a Canadian or other recognized Univ may complete the course in Dentistry in 4 yrs instead of 5, and persons holding the L.D.S. of one of the Med authorities of Great Britain or the B.D.S. degree of Melbourne may be admitted in the Dept of Dentistry without further examn, and to the final D.D.S. examns on completing one full session at the School of Dentistry of the Royal Coll of Ontario

Higher Degrees M.A., obtainable by approved course of graduate study extending over 2 yrs or, in the case of a B.A. in an Honours course, 1 yr, Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ by pursuing in the Univ of Toronto an advanced course of study for 3 yrs, exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required

M.D. and Ch.M. obtainable after 3 yr course open only to graduates in Med of a recognized Univ The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session

The M.A.Sc. may be obtained by a B.A.Sc. of this Univ who pursues a course of advanced study in the Faculty for 1 yr, presents a satisfactory thesis, and passes such examns as may be prescribed

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E. are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns The F.E. may similarly be obtained by a B.Sc.F.

The B.Pæd. and D.Pæd. are open to graduates in Arts or Science of any British Univ who hold a 1st class or High School Asst's certif of Ontario or its equivalent, and pass, after 2 yrs' (D.Pæd.—3 yrs) successful experience in teaching, prescribed examns For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn

The Mus.D. is open to a Mus.B. of this or another Univ of 3 yrs' standing

The Univ publishes annually an announcement of *Graduate Courses* All communications on the subject must be addressed to the School of Graduate Studies

RECOGNITION BY OTHER UNIVS (v pp. 248, 256, 257, 288).

TRAINING OF TEACHERS Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers' The Educn. Dept of Ontario grants certifs on the results of Univ. examns, entitling the holders to teach in the High Schools. All teachers for High Schools and Colleges must spend at least 1 yr in the College of Education

FEES Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ attend lectures of Univ Profs and Lectrs in the Faculty of Arts without payment of fees except for laboratory supplies The College Fees, which entitle students to attend lectures in their respective Colleges, are about \$40 p.a. Medical students pay for tuition, laboratory supply, hospital and annual examn, \$150 p.a. Certificate courses in the College of Education cost \$25 p.a. Forestry, \$80 p.a. Applied Science and Engineering, \$150 D.P.H., \$150

SCHOLARSHIPS, etc, open to graduates include \$120 for 2 yrs for Divinity course in Trinity Coll, Fellowship in Philos, \$300; \$1000 Prize for Scientific research or invention, open to all Canadians, \$500 Scholarship in Medicine; \$500 Fellowship in Anatomy; \$750 Fellowships (one or more, each tenable for 3 yrs) for research in Medicine; and others V. Appendix XXIV.

RESIDENCE University Houses accommodate 150 men, rent, \$4 per week, Univ. Coll Hall, Residence and board for women (133), about \$8 per week, Victoria Coll Halls for 132 men, about \$9 per week, and 126 women, \$200 to \$300 p a, Trinity Coll provides for 70 men and 50 women; St. Michael's (R C) has also Residences for men and women

PUBLICATIONS *President's Annual Report*, *Calendars* of the several Faculties, April and May; *Graduate Studies Bulletin*, *Medical Bulletin*; *Univ. Monthly*, *Can Historical Review*, *Univ Studies*, Students' Mags.—*'Varsity*, *Torontonensis*, *The Goblin*

THE YEAR 1922-23

BENEFACTIONS Rockefeller Foundation, annual payment (subsequently commuted to capital grant of \$1,000,000), \$50,626, and Special Grant (Banting) \$5109, Eaton Endowment, annual payment, \$25,000, Carnegie Corporation, for research in Physiological results of Insulin, \$16,238, Dr H R Geyelin for distribution of Insulin, \$10,000, S Ubukata, for Fund for Japanese students, \$10,000, Air Board, Scientific Research, for Wind Channel, \$5000, Graham Campbell, for J J Mackenzie Fellowship, \$5000, Canadian Red Cross, for Public Health Nursing account, \$4850, Graduate Fellowships donated by—Sir Edmund Osler, \$600, Col R W Leonard, \$500, Imperial Oil Co, \$500, C P R (for 1923-24), \$1500, Canadian Oral Prophylactic Assocn, for research in Dentistry, \$2775; H A Aggett, to found Memorial Scholarship, \$1500, R A Reeve Bequest and Prize in Medicine, \$1200, Sir John Gibson, to endow McCaul Medal, \$500, Hon W Nesbitt, K C, for Medals in the Univ Schools, \$500; following Scholarships Wm Hardie (Classics) \$240, Prof G M Wrong (History), \$200, Boiler Inspection and Insurance Co (Mech Eng), \$170, Profs Beatty and Pounder (Maths), \$100, McCaul (Classics), donated by G A H Fraser, P'pal M Hutton, A M Stewart, K C, \$75, Univ College Alumnæ (Prize in English), \$10, Total, \$142,193

SPECIAL EVENTS First National Conference of Canadian Students, Dec. 28-Jan 2, National Conference on Education and Citizenship

NEW BUILDINGS Anatomical Bldg completed, Univ Coll Women's Union completed, 1 residence purchased, under construction—Administration Bldg (Simcoe Hall), War Memorial Tower, Trinity College, addition to College of Education

CHANGES IN CURRICULA, ETC Arts entrance requirements raised to full Pass Matricn standing, together with credit for at least two subjects of Honour Matricn

UNIVERSITY EXTENSION WORK Enrolment—2177, Summer Session—165, Teachers' Classes—228, Correspondence Courses—211, Tutorial Classes, Urban—121, Rural—147, Extension Courses for Farmers—85, in Town Planning—21, Journalism—98, Export Trade—79, for Nurses—96; W E A., Toronto—346, Outside Toronto—580, Local Lectures—123

NUMBER OF STUDENTS Total registered, 5044. Full-time, preparing for first degrees Arts, 1951, Med., 977, Applied Sc, 741; For., 50, Mus., 45, Educ., 299, Soc Ser, 46, Pub. Health Nursing, 45; Univ Extension (Arts), 203, Grad, 300; Occasional, 478. Women included in the above Univ Coll, 529, Vic Coll., 276; Trin. Coll, 52, St Mich Coll, 105, Grad, 81, Med., 75, Applied Sc, 1, Educ., 159; Mus, 25, Univ Ext., 90, Soc Ser., 41, P.H N, 45; Occ, 352.

HONORARY DEGREES CONFERRED. LL.D.—Sir R. Baden-Powell, H.

Hauser, Sir H. Newbolt, Sir M. Sadler, His Honour H Cockshutt, Rt Hon. W. L. Mackenzie King, W H. Ballard, Mgr. C. N. Gariépy, C. J. O. Hastings, Genl Sir W D. Otter, Rev R. B. Taylor, *M D*—Helen MacMurchy, *D Sc.*—R A Daly, A C. Lawson, E. de Margerie, J S Plaskett, F. N Speller
 After close of year Dr Banting, to whom *Nobel Prize* had been awarded, *D Litt*—G Laing, *Mus Doc*—H. A. Fricker

OTHER DEGREES Ph D, 11, M A, 66, M D, 1; M A Sc., 9, C E., 3, M E, 1, E.E., 1, D.Pæd, 2; B A, 328, M B, 197, B Sc (Med), 3. B A Sc, 231, B.Arch., 11, B Pæd, 17, B Sc F, 10, Mus B, 2, LL.B, 6, D D S, 309, B S.A, 106, B V Sc, 33, Phm B, 91, D P H, 2 (total, 1459)

DEATHS Profs B. E Fernow, J F. Uren RETIREMENTS Profs. A. Carruthers, S. M Hay, J. Mavor, Mr. H. H. Langton

UNIVERSITY OF TRINITY COLLEGE, TORONTO

CHANCELLOR—J A WORRELL, K C , M A , D C L
 VICE-CHANCELLOR AND PROVOST—C A SEAGER, M A , D.D., LL D
 DEAN OF RESIDENCE—Prof L C A HODGINS, M A
 REGISTRAR—Prof J N WOODCOCK, M A Ox
 LIBRARIAN—Prof R E L KITTREDGE, M A
 PRINCIPAL OF ST HILDA'S (WOMEN)—Miss M CARTWRIGHT, B A

PROFESSORS, LECTURERS, ETC., November 6, 1923

[See also the consolidated list under the Univ of Toronto, names marked (T)]

<i>Apologetics</i>	[Assoc Prof *	Duckworth, H T F, M A Ox	Lectr *
Kingston, G F, M A, B D, Ph D			
<i>Church History</i>	[Assoc Prof	The Provost	Prof.
Morris, H C. S., M A Ox.		<i>Homiletics, etc</i>	[Spl Lectr
Young, A H, M A, D C L		Fotheringham, J B, B A	
(Canadian C H)	Spl Lectr	<i>Old Testament</i>	[Prof *
		Prof S B Mercer, M A, Ph D,	
		D D, Dean of Faculty of Div	
<i>Divinity</i>		<i>Pastoral Theology</i>	
The Provost	Prof	The Provost	Prof.
Rollo, W, M A Aberd	Prof †		

Trinity College, established in connexion with the United Church of England and Ireland in 1852, was in 1853 granted a Royal Charter as a University. It is federated with the Univ of Toronto and, in its Faculty of Arts, forms an integral part of it, but in the Faculty of Divinity remains entirely independent and itself confers degrees. Telegraphic address—Trincoll, Toronto.

LIBRARY, 13,000 vols MUSEUM, Nat Hist

COURSES L Th—4 yrs ; Hons or Pass B A of Toronto and Divinity Testamur—5 or 6 yrs , or, with Hons. in Theol , 7 yrs Candidates for the B D or D D, if resident outside the Eccl Provinces of Canada, must be graduates in Arts of 3 yrs ', or ordained clergymen of 5 yrs 'standing The D D is open to B D 's of 5 yrs 'standing

A SCHOLARSHIP of \$120 p a for 2 yrs. is open to students who have taken an Arts course in the Coll

PUBLICATIONS. *Yearbook* (July), *Calendar* (May), *Review*, monthly \$1 50, *St Hilda's Chronicle*, terminally, \$1.

THE YEAR 1922-23

First sod turned for the building of the new college in Queen's Park, Dec 14, 1922, corner stone laid by the Archbishop of Algoma, Primate, and the Lieut-Govr. of Ontario, June 4, 1923

* † Also Prof (*), Lectr. (†), in the Faculty of Arts.

VICTORIA UNIVERSITY, TORONTO

PRESIDENT—R P BOWLES, M A , D.D , LL D.

REGISTRAR—C. E AUGER, B A

LIBRARIAN—A E LANG, M A

Telegraphic Address : Viccollege, Toronto.

PROFESSORS AND LECTURERS, November 22, 1923

[See also in the consolidated List under Toronto, names marked (V.)]

<i>Homiletics, Past. Theol, Ch Hist</i>	<i>Religious Pedagogy</i>	
Johnston, A J , B A. M Cox Prof	Langford, F W , B A.	Prof.
<i>New Testament, Greek, etc</i>	<i>Sociology</i>	[Prof.
Michael, J. H., M.A. Wales	MacMillan, J W , B A , D D Manit	
G A Cox Prof	<i>Systematic Theology</i>	
<i>Public Speaking</i>	The President, M A , D D Wes ,	
Greaves, W H M A. Bos Prof	LL D Mt A & Tor	
	Ed. Jackson Prof	

GENERAL INFORMATION

The Upper Canada Academy was established by Royal Charter in 1836 in connexion with the Methodist Church in Canada Its name was changed in 1841, when power was obtained to grant degrees in Arts, Theol , Med , and Law, to "Victoria College," and in 1884 to "Victoria University." In 1890 it was federated with Univ. of Toronto, and its Arts Faculty became a College thereof, but it still confers degrees in Theology.

LIBRARY. Special features—Canadian verse and Tennysonianana (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 4 yrs. in Languages, Anc Hist. and Ethics for B.A , both Pass and Hons , 3 yrs for B D , the 2nd and 3rd yrs. being subsequent to graduation in Arts, 3 yrs.' conference course for probationers for the Ministry following a 2 yrs.' course taken on circuit , 3 yrs.' conference course for graduates.

HOSTELS for 120 men and 125 women students

PUBLICATIONS. *Theological Calendar* (May) , *Bulletin* (July) , *Acta Vict.*, a students' monthly

THE YEAR 1922-23

BENEFACTIONS Meacham Scholarship, \$3600 , Susan T Trick Scholarship, \$2000

NUMBER OF STUDENTS Full-time, preparing for B A , 519, including 274 women ; B D or Dipl Th (graduates), 21 , Dipl.Th (non-grads) , 36 ; occasional, 27 (4 women)

HONORARY DEGREES D D —J D. Ellis , C W Flint (Syracuse, N Y) ; W. G Watson (Sackville, N B.)

OTHER DEGREES B D —14 , Dipl.Th (graduates), 9 , Dipl Th (non-grads) , 8.

UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

CHANCELLOR—Hon. W J ROCHE, M D , LL D

CHAIRMAN OF THE BOARD OF GOVERNORS—Major A. T. LITTLE.

PRESIDENT—

REGISTRAR—Prof K P R NEVILLE, M A , Ph D

BURSAR—W. WAUGH, M D , LL D

LIBRARIANS—F LONDON, M A , MARJORIE ROSS, B A , ETHEL SULLIVAN

EXECUTIVE SECRETARY—Lieut -Col W J BROWN, B S A , LL M

PROFESSORS, LECTURERS, ETC., September 1, 1923

<i>Anatomy</i>		Neville, K P R, M A Harv ,
McKibben, P S , B S Granv ,	Ph D Chic , Dean of Fac of	Ph D Corn (C & Hist) Prof
	Med	Assoc Prof
Macklin, C C , M B , M A , Ph D	Tor	
Schaeff, H E , M D	Instr	
Chalk, S G , M D	Instr	
Macklin, M T , A B , M D	Instr	
	I Fellow	
<i>Biology</i>		
Robertson, A D , B A Tor	Prof	
Hart, N C , M A Tor.	Prof	
Detwiler, J , M A Qu , Ph D	Corn	Asst Prof
McIntosh, Margaret, B A	Asst	
<i>Chemistry</i>		
Slack, J A , Ph C Mass C Ph ,	M D	Prof
Gunton, J A , M A Tor , Ph D	Ill	Assoc Prof
Best, N C , Ph C Mass C Ph		
	Assoc Prof	
Russell, J , M A Harv	Instr	
McLean, Mary M , B A	Asst	
Rowntree, Gertrude, B A	Asst	
Chapman, C W , B A	Asst	
<i>Classics</i>		
Fox, W S , M A McM , Ph D	J H U , Dean of College of	
	Arts	Prof
		<i>Economics</i> , v Polit Econ
		<i>Elocution</i>
		Walker, Jean I Instr
		<i>English</i>
		Tamblyn, W F , M A Tor , Ph D
		Col Prof
		Spenceley, J A , B A Tor , Ph D
		Harv Asst Prof
		Albright, Evelyn, B A. Tor Instr
		Neville, J T , M A Lectr.
		<i>French and Italian</i>
		Shanks, L P , Ph D Corn Prof
		<i>French and Spanish</i>
		Meras, E A , B.A Coll of City of
		N Y Asst Prof
		Méras, L R , Ph D Neb Instr
		Collin, W E , B ès L Toulouse
		Instr
		<i>Geology</i> [Assoc Prof
		Russell, J W , M A McM
		<i>German</i>
		James, N. C , B A Tor , Ph D
		Halle Prof
		Allen, R A , M A Tor Instr.
		<i>Hebrew</i> [Prof.
		Waller, C C , M A Camb., D.D.

History

Dorland, A G, B A Qu, M A
Yale Prof
Landon, F, M A Assoc Prof

Mathematics

Kingston, H R, M A Qu, Ph D
Chic Prof
Patterson, W J, M A Qu Prof
Woods, A, M A Qu Instr

*Medicine, v infra**Philosophy*

McIntosh, W R, B A Tor, B D
Knox Lectr
Jewett, E W, B A Tor Lectr

Physics

[Prof
Dearle, R C, B A, Ph D Tor
Allen, R L, M A Mt All Instr
Foster, Willena, M A Tor Instr

Physiology

Miller, F R, M A, M B Tor,
M D Mun Prof
Laughton, N B, B A Tor Instr
Reynolds, R P, M D Instr
Simpson, H M, M D Instr

Political Economy

Freeman, R, M A McM, Litt B
Ox Assoc Prof
Perrin, F E, B A Tor Lectr
Curran, F H, B A, LL B Lectr.

Psychology

[Lectr
Sage, G B, M A Trin, D D

Medicine (for subjects of first 2
yrs.—Anat, etc, v. *supra*)

Eye, Ear, Nose, Throat

Thompson, S, M D Prof
Brown, W J, M D, C M McG
Instr
Armstrong, J R, M D Instr.

Medicine

Macgregor, J A, M D. Prof
Childs, J R N, M D
Assoc Prof
Hale, J C, M D, C M McG
Assoc Prof

Fisher, S M., M.D. Instr
Campbell, F. J H, B A, M D

Instr
Hughes, F W, M D Instr
Bowman, J T, M D Instr
Pratten, F. H, M.D. Tor. Instr.
Ferguson, D D, M D Instr
Bowen, C B, M D Instr
Fletcher, M C G, M D Instr

Obstetrics and Gynaecology [Prof.

Ferguson, R, B A Tor, M D
Williams, E L, M D Assoc Prof.
Black, H H, Ph B, M D

Asst Prof
Clegg, F R, M D Instr
Tew, W P, M B Tor Instr
Kingswood, R C, B A, M D Instr

Pathology and Bacteriology

Bullard, H H, A B Missouri,
Ph D Tul, M D J H U Prof
Gordon, J E, B S, Ph D Chic
Assoc Prof
Luney, F. W, M.D., D P H
Assoc Prof
Ramsay, G A, M D Instr
Ballantyne, E. N, B A, M D

Instr
Lewis, J H, M D Instr
Fisher, J H, M D Instr

Pediatrics

Tillmann, W J, M D Prof
Lindsay, J C, M B Tor
Asst Prof
Ferguson, J I, M D Asst Prof
Denney, W L, M D Instr
Little, H S, M B Tor Instr.

Pharmacology

Crane, J W, M B Tor Prof
Young, E G, B A, M Sc
Asst Prof
Le Touzel, J R, M D, C M McG
Asst Prof
Dougall, R. P I, M D Instr

Psychiatry

[Assoc Prof
Robinson, W J, M B Tor
Stephenson, G H, M B Tor
Assoc Prof

<i>Public Health</i>	<i>Surgery</i>	[Prof
Hill, H W, M D, D P H Tor,	Williams, H, M D, F R C S	
Dean of Inst of P H Prof	Wilson, J C, M D	Instr
Downham, W S, M D, D P H	Grant, A J, M D	Instr
Lectr	Ramsay, G A, M D	Instr
	Pritchett, L W, M D	Instr
<i>Radiology</i>	Reynolds, R P, M D	Instr
McNeill, G, M D, F A C S Prof	Post, A R, M D	Instr

AFFILIATED INSTITUTIONS

HURON COLLEGE. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ. Rt. Rev. Bp of Huron, D D, Lectr. in Bib Exeg ; F Anderson, M.A Ox., B D, Prof of Ch Hist, Dean L N Tucker, M A, D C L, D D

ASSUMPTION COLLEGE President, Prof of Greek, D L Dillon, B A Eleven other Profs of Arts subjects

URSULINE COLLEGE Dean and Prof of French, Mother St Anne Four other Profs of Arts subjects

CONSERVATORY OF MUSIC, BRANTFORD, ONT. Principal, W. Norman Andrews, Dip. Leip.

GENERAL INFORMATION (v. also p. 303)

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of an amending Act of 1908, absolutely undenominational in its government, which is under provincial and municipal control.

FACULTIES. Colleges of Arts, Medical School, Public Health.

DEGREE COURSES. 4 yrs. (from Junr. Matricn.), B A ; 1 yr. (graduates), M.A. ; 6 yrs, M.D Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ for at least 1 yr before they can graduate D P H and C.P H N courses (1 yr) provided for graduates in Med and graduate nurses respectively

PUBLICATIONS *Calendar* (May), *Univ Gazette*, weekly during term

THE YEAR 1922-23

GRANTS Provincial, \$200,000 for current and \$800,000 for capital expenditure, City, current, \$55,000, County, capital, \$20,000

NEW BUILDINGS. College of Arts (\$500,000), Natural Science (\$450,000), and heating plant (\$100,000), corner-stones laid by Premier of Ontario, June 1923.

NEW POSTS Director of Library services, Assoc Prof of Commercial Economics (E. H Morrow, formerly director of extra-mural work, Queen's Univ).

RESIGNATIONS Prof L A. Wood, Prof E G Sturdevant (to devote his time to research, succeeded by J A. Gunton from Transylvania Coll, Ken-

tucky), Asst Prof O F. W Ellis (to return to Harvard, succeeded by W. Collin from Toulouse)

CHANGES IN REGULATIONS, ETC Number of credits to constitute a year's work reduced by about a sixth, provision for expansion of Summer School and Extra-mural work, Entrance Scholarships quadrupled, Name of Univ changed (it was formerly called the Western Univ of London, Ont), Commercial Economics course revised

EXTENSION WORK 128 lectures by staff in 32 localities, Radio talks by staff once a week, Oct to April, 22 articles in 12 newspapers on local plant life and geology, 2 W E A classes (Literature and Economics)

THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

CHAIRMAN OF THE GOVERNING BODY—SIR ARTHUR E. SHIPLEY, G.B.E.,
LL.D., Sc.D., F.R.S.

VICE-CHAIRMAN—Lieut.-Col. SIR DAVID PRAIN, C.M.G., C.I.E., F.R.S.

PRINCIPAL—SIR FRANCIS WATTS, K.C.M.G., D.Sc.

SECRETARY—ALGERNON ASPINALL, C.M.G., B.A.

REGISTRAR—A. G. HOWELL, St. Augustine, Trinidad.

PROFESSORS, ETC., January 1, 1924

<i>Agronomy</i> —Dash, J. Sydney, B.S.A.	<i>Economics</i> —Dunlop, W. R., Dip S.E. Agr. Coll., Wye
<i>Botany</i> —Harland, S. C., D.Sc. Lond., F.L.S.	<i>Zoology and Entomology</i> —Ballou, H. A., M.Sc. Massachusetts Agr. Coll.
Demr.—Cheesman, E. E., B.Sc. Lond., A.R.C.S.	Demr.—Withycombe, C. L., Ph.D., M.Sc. Lond., D.I.C.
<i>Chemistry</i> —Hardy, F., M.A., Dip Agr. Camb.	<i>Mycology and Bacteriology</i> —Ashby, S. F., B.Sc. Edin.
Asst. and Demr.—Turner, P. E., B.Sc. Lond.	<i>Sugar Technology</i> —Freeland, E. C.

GENERAL INFORMATION

Incorporated in Sept. 1921 as the outcome of recommendations made by the Tropical Agricultural College Committee (appointed by Viscount Milner in 1919) in their Report (Cd. 562), the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The funds of the College are derived from contributions from Colonies and industries participating in the movement and an Imperial grant. The Imperial Department of Agriculture, which was founded in 1898 and was amalgamated with the College on April 1, 1922, is administered by the Imperial Commissioner of Agriculture, now the Principal of the College, who corresponds directly with the Colonial Office and the Governments concerned. He supervises the botanic and experiment stations at Grenada, St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Government of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and

Bermuda in agricultural matters, including the teaching of agriculture in schools. Up to March 1922 the Department issued the *Agricultural News*, a popular fortnightly review circulating widely in the tropics of the old and new worlds, and the *West Indian Bulletin*, a scientific quarterly dealing specially with tropical research and experiment. Numerous pamphlets dealing with special subjects and annual progress reports on sugar-cane experiments and the work of botanic stations were also issued. The College publishes monthly *Tropical Agriculture*. On the transfer of the headquarters of the Department to Trinidad in Sept. 1922 the services of all the officers were retained in the staff of the college, and remain available for duty in connexion with the work of the Department.

A model sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, is being set up.

The academic year extends from October 1 to June 30.

COURSES. (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T A to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology, (2) one-year course in elementary Agr. Science for students unable to afford (1), with some practical acquaintance with the scientific side of tropical planting and the more up-to-date and efficient methods of production and management; (3) courses for Agr. officers selected for Colonial service in T A departments.

POST-GRADUATE RESEARCH. Facilities are provided for work in connexion with problems arising in T A, and more especially those connected with plant pathology, agronomy, and physiological botany.

TUITION FEES. £50 p a, but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts and industries, without the payment of tuition fees, other students from contributing Colonies, £25 p a.

Further particulars are obtainable from either the Secy at 14 Trinity Sq, London, or the Registrar, St Augustine, Trinidad, B W I.

STUDENTS in 1922-23. Diploma, 11; graduate, 2, special, 3.

THE UNIVERSITIES OF AUSTRALIA

ADELAIDE	MELBOURNE	QUEENSLAND, BRISBANE
SYDNEY	TASMANIA, HOBART	WESTERN AUSTRALIA, PERTH

GENERAL DESCRIPTION

[Summary, corrected to Sept 1922, of information issued in June 1919 by an Administrative Committee of the Australian Universities through the Education Service of the Australian Imperial Force of which the Committee was a part]

THE Universities of Australia are dotted all round the Commonwealth and are at great distances from one another and in diverse climates. The mean annual temperatures range between about 70° at Brisbane and 54° at Hobart. Western Australia's nearest neighbour is Adelaide, which is about 1600 miles away by the shortest route. There is, naturally, not much moving about of students from one to another, but in the three younger some of the principal professional courses are not yet provided, and it frequently happens that a student after working in one of them for a year or two transfers to one of the older and more central Univs where he is granted status in his professional course. As the Univs are not all uniformly developed, they cannot be quite uniform even in their requirements for entrance. But they exercise all possible reciprocity in the interchange of students. They also give students who come from British Univs the same status as at Home. Typical of their attitude in this regard is the By-law of Sydney. Undergraduates of other Univs may, at the discretion of the Professorial Board, be admitted *ad eundem statum* in this Univ without examn. Provided always that they shall give sufficient evidence of their alleged status and of good conduct.

THE COLLEGE SYSTEM When the Univs of Sydney and Melbourne were founded provision was made for the establishment of "Colleges of Residence in connexion with different religious denominations." So there came into existence at Sydney, and on the Univ grounds, "St Paul's" (Church of England), "St John's" (R C), "St Andrew's" (Presb), an undenominational College for women, and "Wesley" (Meth). Similarly at Melbourne, the first College, "Trinity" (C of E), was opened in 1872, and was followed by "Ormond" (Presb), "Queen's" (Meth), and "Newman" (R C). Queensland has "Emmanuel" (Presb), "St John's" (C. of E), "King's" (Meth), and an "undenominational" Women's Coll, as well as St Leo's (R C). There are no other Univ Colls in Australia. All these are self-governing and receive no financial aid from the Univ. They accommodate and teach only a small proportion of the whole number of Australian students, but their importance and influence on Univ life are not to be gauged by this circumstance.

CONSTITUTIONS The outstanding feature of the Australian Univ constitutions is the definite and considerable part taken by the State in appointing members of their governing bodies. This is due to the large contributions made to them out of public funds. The newest Univs have admitted divers other persons, such as representatives of commercial, industrial, scientific, and educational societies, or benefactors, to participate with their graduates in the election of senators or councillors. The constitution of Sydney is the simplest, that of Queensland is the most comprehensive in its legal conception of the Univ as "a body corporate consisting of Senate, Council, and graduate and undergraduate members." Western Australia, however, is the only Univ where undergraduates are enrolled by Act of Parliament in a "Guild" which is given a representative on Convocation, the electing body that may also disallow or propose amendments in any legislation of the Senate.

ADMISSION Attempts have been made to devise a common matricn, but, so far, they have failed. The reason for this is that the Univs, although they are developing on very similar lines, and attaining very similar standards, are maintaining a certain amount of individuality. Generally speaking, matriculation requirements include passing a recognized examn (school-leaving, matricn, etc) in English, another approved language (at Sydney, *e g*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some faculties to persons who have attained the age of 25 yrs, provided (Sydney) they give evidence of distinct educational merit and are recommended by a three-fourths majority of the Faculty of Arts and approved by the Senate.

THE UNIVERSITY AND THE PROFESSIONS The Univ has always at least one professional school. Thus Queensland's School of Engineering has a high repute. Western Australia is making a specialty of Agriculture. Tasmania has no professional school but Law. Sydney, Melbourne, and Adelaide have each a wide range of schools.

The Engineering schools give a thorough practical training. Rather high entrance requirements are called for in each of the Univs. The curricula extend over 4 yrs (W Australia, 5 yrs), and are arranged with the definite view of giving a sound knowledge of the properties of materials, and the principles of Maths, Phys, Chem, and Mechanics underlying all engineering work, before specialized professional subjects are taken. Owing to several large bequests the Russell School of E in Sydney is the most fully equipped. It maintains separate depts for Civil, Mech, and Elec E, for Mining and Metall, and for Archit and Building Construction. The corresponding Schools in Queensland and Melbourne are also well equipped, and those of Adelaide and Western Australia, although not so comprehensive, are efficient. Systematic arrangements are made for students to obtain practical experience in workshops or in the field during vacations. The University training is widely recognized as a necessary qualification for professional positions. As a rule graduates in Civil E enter the State or

Federal Public Works Depts, which carry out practically all the large national engineering works, very little in the way of Public Services being left to private enterprise. The experience thus to be gained is very good, although it must be admitted that the emoluments are relatively low. Many graduates in Mining E have been absorbed in the mining industries of Australia, but a great number—probably the majority—find their way to the larger mining centres of the world where the financial rewards are usually greater. There is a good deal of industrial and commercial engineering in Australia, and men wishing to have the freer scope which this offers usually take the courses in Mech and Elec E. In Archit, especially the domestic kind, there is a promising outlook in practically all parts of the Commonwealth.

The Medical Schools of Sydney, Melbourne, and Adelaide are among the best in the Empire. They comply with the requirements of the General Medical Council, and there is full reciprocity, in respect of registration of degrees as qualifications to practise, between the U K and Australia. The greater part of the Australian medical profession is now trained in these 3 Univs, and distinguished teachers and research workers are continually being brought in to supplement their staffs. High positions are also held by their graduates outside Australia. It is generally felt by Australian medical men who have had experience in Europe among men trained in the Schools of the U K, that their own training has been even more practical. It is thoroughly British in scope and method, but, in the proportion of hospital facilities to the number of students, it has had some advantages over the training received by the average British student. Whether this impression is or is not correct, it remains true that Australian medical education has reached a high standard, and the equipment of the Faculty is always good and often excellent. Sydney has the advantage of an immense public hospital, on its own grounds, with another a short tramway journey distant. In Melbourne general hospitals containing 500 beds, and women's and children's hospitals are close to the Univ. The Genl Hospl at Adelaide is within half a mile of the Univ, and after the 2nd yr the greater part of students' time is spent in it. The work done may also be supplemented by study, after graduation, in the "Australian Institute of Tropical Medicine" at Townsville in Queensland, and a Diploma in Trop Med is attainable. The Hall Research Institute in connexion with the Melbourne Hospl provides facilities for post-graduate work.

In all the Univs the Faculty of Arts is becoming, with due help from the Faculty of Science, a professional school for teachers. Sydney and Melbourne have Profs of Education who are also heads of the State Training Colleges. Adelaide has the State Director of Education on its Ed Committee and Council, and gives a Diploma to graduates in Arts and Science who take a prescribed course of prof study and have proper experience of teaching. There is a course in Ed at Queensland and every faculty is given to teachers to graduate in Arts. Western Australia has a Dept of Ed, but it is not yet fully organized. An excellent professional equipment for teaching can now be obtained in Australia and the material rewards of teaching are likely to increase.

The less anciently established professions become associated with the Univs on obtaining a higher status or a legal organization. Thus Vet Science, the practice of which is as yet legally controlled in only two States, is now regularly entered in one of these (Victoria) through a Univ course of study. In N S W, its legal constitution will certainly follow the recent institution of a Faculty of Vet Science at the Univ of Sydney. In Western Australia, whose Univ also has a Dept of Vet Science, the law requires such qualifications for vet practice that a Univ training will become the natural approach to the profession in that State.

PERIODS OF STUDY The Univ requires 3 yrs' study for a B A or B Sc. The curriculum for the first degree in Med, formerly 5 yrs, has been lengthened; in Melbourne and Sydney it is 5½ yrs and 6 yrs. The time needed to graduate in law may vary; thus Melbourne course takes 4 yrs, but Sydney allows Arts graduates, if they can, to do the prof studies in 2 yrs. To graduate in Engin requires 4 yrs, in Vet Science, in Agric, and in Dentistry also 4 yrs, subject to certain minor variations.

ACADEMIC TERMS In Australia qualifications are reckoned in "Years" and "Courses". But each "Year" is divided into "Terms". The number of Terms in the Year is usually 3. The Year begins in March and ends in Nov or Dec. The "Long Vacation" comprises Dec, Jan, and Feb, which are the warmest months. Melbourne has 4 terms, the First of 12 weeks, the Second of 10, the Third of 10, and the Fourth, or Examn Term, of 4. Tasmania also has 4 terms. Queensland has 3 terms and 2 Examn Periods.

FEES AND COST OF LIVING The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £175 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 30s a week. The Univ "Unions" provide good meals at about cost price, from 6d to 2s each, together with all the other comforts of a clubhouse, for £1 or less a year. Exercise in rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 80 to 100 gs per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs a term for resident students, Ormond, Melbourne (Presb), from 95 to 110 gs a year for residence during terms, according to the course being taken. St John's, Queensland (Anglican), has fees of £21 per term. Special arrangements can always be made for residence during vacations and, for an example, Ormond then charges 2 gs a week. Many men live in College on a total income of not more than £150 a year, it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

A list of Univ Fees payable at Melbourne and Sydney is given

below. The fees at Tasmania are very small, 4 or more subjects a year costing only 10 gs, and a year's work in the laboratory not going beyond 4 gs. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs a year in Arts, 20 gs in Science, and 21 gs in Engineering. W. Australia charges fees for exams., degrees, and certs., but tuition fees only to overseas students. Fees at Adelaide do not differ widely from those at Melbourne and Sydney.

Melbourne Matricn, 1 g, Degree, 7 gs, Degree Courses in Arts, 3 yrs, about 52 gs, Science, £25 each yr, Agric, 4 yrs, 78 gs, Laws, 4 yrs, about 60 gs, Med, 5½ yrs, £215 (including Hospl Fees), Engin, 4 yrs, £100, Vet Sc, 4 yrs, £100, Music, 3 yrs., at conservatorium, 44 gs p a

Sydney Matricn, £3, Degree in Arts, Econ, Sc, Agric, or Vet. Sc, £3, M D and M S, £20, other Degrees, £10, Degree Courses in Arts, 3 yrs, £75, Econ, 4 yrs, £96, Law, £90 (Arts subjects additional), Med, £196 (excluding Hospl. Attendance, 10 gs, and practical Midwifery, 5 gs), Dent, 4 yrs, £150 (including Dent Hospl £10 p a), Science, 3 yrs, £99, Engin, 4 yrs, £154 (Min and Met, £168), Agric, 4 yrs, £118 10s, Vet Sc, 4 yrs, £114, Archit, 4 yrs, £168

FREE PASSAGES TO EUROPE The following free first-class passages are granted annually to Australian and New Zealand Univs for graduates holding scholarships proceeding to Europe to continue their studies. Adelaide, 2, Melb, 3, Queensland, 2, Syd, 3, Tasm, 1, W Aust, 2, N Z, 2, available by any of the following Lines. Aberdeen, Blue Funnel, Australian Commonwealth, Orient, P & O, and, for N Z graduates only, N Z Shipping and Shaw, Savill, & Albion

CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs established a Standing Advisory Committee to deal with matters of common interest. The temporary headquarters of the Committee are in Melbourne. The Chancellor of Melbourne Univ acts for the time being as Convener of the Committee, and the Registrar as Honorary Secretary.

A conference of representatives of the Univs. was held in Melbourne in May 1922. Steps were taken to ensure that the short vacations in autumn and spring should be to a large extent common to all the Univs so as to facilitate, for the staffs, the holding of conferences and congresses and, for students, the holding of inter-University competitions. With a view to securing more uniformity in the standards and titles of Australian degrees, the several Univs were asked to furnish reports to the Standing Advisory Committee. Representations were made to Oxford, Cambridge, and London, asking for further credit for Australian students for work done in Australia. The question of holding degree exams in country centres for Arts and Law students who do not attend lectures was discussed. Several Univs already hold such exams to a limited extent. A statement of policy in this connexion was agreed to.

AUSTRALIAN STUDENTS IN THE HOME UNIVERSITIES, v. Appendix XXII.

UNIVERSITY OF ADELAIDE

VISITOR—H E. THE GOVERNOR

CHANCELLOR—Hon. Sir G J. R. MURRAY, K.C.M.G., B.A., LL.M.,
Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Prof W. MITCHELL, M A , D Sc.

REGISTRAR—C R HODGE.

PROFESSORS, LECTURERS, ETC., September 1, 1923

- | | | |
|--|--------------------|--|
| <i>Accountancy</i> | | Finlayson, R. N , LL.B. (Indust |
| Booth, S R , M A Camb | Lectr | and C. Law) Lectr. |
| <i>Anatomy</i> [Elder Prof | | Ham, W (Aus Industries) Lectr. |
| Wood Jones, F , M B , M R C S., | | Sutton, J (Bank & Exch) Lectr |
| L R C P , D Sc Lond | | Steele, R M , A C U A (Com. |
| Scott, M L , M B , M S , F R C S | | Practice) Lectr |
| | Lectr | |
| Mead, C S , B A , M B , B S | | <i>Dental Science</i> , v <i>infra</i> |
| | Demr | <i>Economics</i> , v also Com. |
| <i>Bio-Chemistry</i> , v <i>Physiology</i> | | Mackay, A L G , B A , Dip Ed |
| | | Syd Asst Lectr |
| <i>Botany</i> [Prof | | <i>Education</i> [Lectr |
| Osborn, T G B , D Sc Manc | | Schulz, A J , Ph D Zur., M A. |
| Samuel, G , B Sc | | |
| | Lectr (Plant Path) | <i>Engineering</i> , v also Mining |
| Wood, J G , B Sc | Demr | Chapman, R W., M A., B C.E. |
| | | Melb Prof. |
| <i>Chemistry</i> | | <i>Engineering, Elec</i> |
| Rennie, E. H , M A. Syd., D.Sc | | Clark, E V , B Sc Lectr |
| Lond and Melb Angas Prof | | <i>English Lang and Literature</i> |
| Cooke, W T , D Sc Lectr | | Strong, A T , M A Ox , Litt D |
| Pennycuik, S W , M Sc Q'ld. | | Jury Prof |
| | Lectr | Bald, R C , B A Lectr |
| Finlayson, H H | | <i>Forestry</i> |
| Asst Lectr & Demr | | Corbin, H. H , B Sc. Lond Lectr |
| <i>Classics and Comp. Philol. and</i> | | Lea, A. M., F L S (Entomology) |
| <i>Lit</i> [Hughes Prof. | | Lectr. |
| Naylor, H Darnley, M A Camb | | <i>French</i> |
| Hollidge, D. H., M A Asst Lectr. | | Crampton, J., B A. Lond. Lectr. |
| <i>Commerce</i> , v. also <i>Acctcy.</i> | | <i>Geology and Mineralogy</i> |
| Heaton, H , M A Leeds, M Com | | Mawson, Sir Douglas, O B E , |
| Birm , D Litt Leeds (Econ | | F R S , B E , B Sc Syd , |
| & Indust Pract) Lectr | | D Sc Prof |
| Clucas, R. J. M , B.A. (Ec. Geog.) | | Madigan, C T , M A Ox , B Sc |
| | Lectr. | Lectr |

History, Modern

Henderson, G. C., M.A. Ox. Prof.
Oldham, W., M A Asst Lectr

Law

Phillipson, C., M A, LL D, Litt D
Vict, Manc, Barr -at-Law
Prof
Rudall, R J, LL B (Const L)
Lectr
Finlayson, R N, LL B (Evidence
and Procedure) Lectr
Benham, E W, LL B (Private
Internat L) Lectr
Hannan, A J, M A, LL B
(Roman L) Lectr
Thomson, H, LL B (Wrongs)
Lectr

Mathematics

Wilton, J R, M A Camb, D Sc
Elder Prof
Sanders, H W, B A Lectr

*Medicine, v infra**Mining Engineering*

Gartrell, H. W., M A Col, B A,
B Sc. Lectr.

Music

[Elder Prof.
Davies, E H, Mus D

Philosophy

[Hughes Prof.
Stewart, J McK, D Phil Edin
Jackson, Sarah E, M A Tutor.

Physics

Grant, K, M Sc Melb Prof
Burdon, R S, B Sc Lectr.

Physiology

Robertson, T. Brailsford, Ph D.
Calif, D.Sc Prof.
Fuller, W (Lectr in Histology)
Demr

Demrs in P and Bio-Chem

Marston, H R
Robertson, Effie J, M B

Zoology

Johnston, T Harvey, M A, D Sc
Syd Prof
Tiegs, O W, B Sc Q'ld
Asst Lectr

Medicine (for subjects of first
2 yrs —Anat, etc, v *supra*)

Diseases of Children, Med.

Gunson, J. B., M B Clin Lectr.

*Diseases of Children, Surg, v
also Obstetrics*

Gilbert, H, M B, B S Clin. Lectr

Forensic Medicine

Rogers, R S, M A, M D., Ch M
Edin Lectr

Gynæcology

Wilson, T G, M D Syd, F R C S
Edin (Tutor in *Obst*)
Way Lectr

Materia Med and Therap

Fry, H K, B Sc, M B, B S Lectr

Medicine and Therap.

De Crespigny, C T C, M D, B S
Melb, M R C P Lectr

Medicine, Clinical

[Lectr
Hone, F S, B A, M B, B S
Ray, W, B Sc, M B, B S Tutor

Medicine, Psychol

Downey, M H, M B, B S Melb.
Lectr

Obstetrics and Dis of Children

Lendon, A A, M D Lond Lectr

Ophthalmic Surg [Gosse Lectr.

Morgan, A M, M B, B S.

Otology

Pulleine, R H, M B Syd Lectr.

Pathology

Cleland, J B, M D Syd Prof
Barlow, D L, M B, B S Asst
Grant, R L T, M B, B S Demr

Public Health & Preventive Med

Hone, F S, B A, M B, B S
Lectr

Surgery

Cavenagh - Mainwaring, W R,
M B, F R C S Lectr

Surgery, Clinical and Operative

Newland, H S, M B, M S Lectr
Smeaton, B, M B, B S
Lectr & Tutor.

Clinical Teachers

The Staff of the Adelaide and of
the Children's Hospls

Dental Science

Lectrs [(Prosthetics).
Chapman, A I, D D S
Reid, F W, B Sc (Metal).
Trott, L W, D D S (Mat Med,
etc)
Fuller, W (Histology)

Millhouse, E J (D Surg & Path).
Smeaton, B, M B, B S (Surg).
Southwood, A R, M D (Med).
Newling, P R, D D S (Operative
Dentistry)
Edwards, H I J, B D S (Ortho-
dontics, etc)

Tutorial Classes

Heaton, H (v Commerce), Direc-
tor, assisted by 8 tutors

ASSOCIATED OR AFFILIATED INSTITUTIONS

S AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES President, Hon. Sir
L. Bonython. Unites with the Univ. in providing courses and examns. in
Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board.

ROSEWORTHY AGRICULTURAL COLLEGE. Affiliated for parts of the B Sc.
course for Agric students

GENERAL INFORMATION (v. also p. 398)

The Univ. was established by Act of the Provincial Legislature in 1874
with endowments of £40,000 from Sir W W Hughes and Sir I Elder, and
a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000)
as well as a site of 5 acres in the city and a recurrent money grant. Sir T
Elder died in 1897 leaving £65,000 to the Univ. In 1911 the State Parliament
sanctioned an additional annual grant and took power to appoint 5 additional
members of the Council which, until then, consisted of 20 elected by the
Senate. In 1914-19 Mr Peter Waite presented to the Univ approximately
£55,000 and extensive estates, including a mansion, and in 1920 Sir J L
Bonython gave £40,000. The annual Govt grant raised in 1919 by £20,000
is now about £35,000. The value of the endowments is £400,000.

LIBRARY, over 50,000 volumes. LABORATORIES, Biol, Bio-Chem, Bot,
Chem, Path, Phys. The Univ assists in the management of a Public Library,
MUSEUM and ART GALLERY, and controls the ELDER CONSERVATORIUM (annual
fee, 14 gs)

FACULTIES Arts, Science, Law, Medicine, Dentistry, Music, Applied
Science (including Staff of S. Aus. School of Mines and Industries)

DEGREES Obtainable after 3 yrs.' course, B A., B.Sc., Mus B, 4 yrs.,
LJ., B., B E, B D S, 6 yrs., M B, B S

HIGHER DEGREES Open to bachelors of 2 yrs' standing, M A, M.E.;
3 yrs', D Sc, LL.D, M.D, M.S, Mus.D.

DIPLOMAS. Applied Science (Mining, Metall., or Engin—Civ., Elec., Mech.,
or Archt), 4 yrs.' course, Commerce (A.C.U.A.) evening courses, Education
(post-graduate), Forestry, 2 yrs', Music (A.M.U.A.), 3 yrs.'

A "Final Certificate in Law" for admission as a practitioner in the Supreme
Court is obtainable by articled clerks on a curriculum less extensive than that
for the LL B.

The Univ. conducts PUBLIC EXAMNS. of various grades, irrespective of

those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours, in Commercial Education—Intermediate and Leaving, and Music

SCHOLARSHIPS, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs, several smaller

ADULT EDUCATION Tutorial classes were established in 1918 The subjects taught are Engl Lit, Psychology, Mod. Hist, Economics, Polit Sc, Music At the Univ the courses extend over 3 yrs Four classes are held in country centres Public lectures given occasionally

CALENDAR publ. in Feb Price 2s. 6d.

GRADUATES' ASSOCN Hon Sec —D H. Hollidge, Box 498, G P.O.

THE YEAR 1922-23

BENEFACTIONS Estate of Mr and Mrs Peter Waite, valued at over £100,000, Mrs Jane Marks bequest, £30,000 for Med School endowment, Mrs. A M Simpson and Miss A F Keith Sheridan, property valued at £20,000 for medical research

NEW BUILDINGS Darling building completed (at cost of £45,000, including equipment) and occupied by Schools of Physiol, Path, Zool, and Bio-Chem

NEW POSTS Lectr in Plant Pathology, Asst Lectr in English and in Economics, Med and Surg Registrar and a Bio-Chemist for Adel Hospl, Special Asst for manuf of Insulin

RETIREMENT W Mitchell, with title of Emeritus Prof (Philos) RESIGNATION Dr H Swift.

DEGREES CONFERRED B A., 15 (including 7 women), B Sc, 11; B E, 9; M.B., B S, 16, B D S, 1; LL B, 18, M A, 6 (2 women), M.D., 3, M S, 1, D Sc., 2, I L D, 1

STUDENTS Graduates, 48 (including women—20) Undergrads. Arts, 318 (women—179); Sc, 101 (w.—26), Law, 95 (w—5); Med, 157 (w—11), Dent, 21 (w—6), Engin, 72; Music, 6 (w—3) Others Arts and Sc, 212 (w—62), Dip. Econ, 12 (w.—3), Engin., 7, Sch of Mines, 66, Pharm, 58 (w—9), Massage (women), 5; Comml, 216 (w—16), Conservatorium, 602.

UNIVERSITY OF MELBOURNE

VISITOR—H E. THE GOVERNOR

CHANCELLOR—SIR J H. MACFARLAND, M A, LL D

VICE-CHANCELLOR—SIR J GRICE, B A, LL B.

REGISTRAR—J. P BAINBRIDGE, F I C A, F C I S, J P

ASSISTANT REGISTRAR—S S ADDISON, M B E, B Sc Adel

LIBRARIAN—E D ULRICH, M A

PROFESSORS, LECTURERS, ETC, April 1923

Agriculture

Richardson, A E V., M A, B Sc

Adel Dir of School & Lectr

Robertson, W A N, B V Sc

Lectr (*Animal Husbandry*)

Archer, R T Lectr (*Dairying*)

Wilson, H C Lectr

French, C

Lectr (*Ag Entomology*)

Agric Engineering [Lectr

Rennie, E J C, M E. Adel

Anatomy

Berry, R J A, M D., Ch M,

F R C S Edin Prof

Anderson, J. H, C M G, C B.E.,

M D Sr Lectr

Green, J S, M B, B S

Stewart Lectr

Anat, Regional and Applied

Newton, H. A S, M B, M S,

F R C S Eng Lectr

Architecture

Gawler, J S, A R V I A Lectr

Sutherland, G J, Dip Arch

Lectr

Alsop, R H, F R I B A.,

F R V I A. Dir. of Atelier

Irwin, L, A R I B A Lectr

Clark, E J., F R V I A Lectr

Bacteriology, v Med

Bio-Chemistry, v Physiology

Botany & Plant Physiology [Prof

Ewart, A J, D Sc Lond & Ox,

Ph.D. Leip., F L S, F R S.

McLennan, Ethel I, D Sc

Sr Lectr

Patton, R B, B Sc

Sr Lectr (Agr B and

Plant Path)

Gordon, Mary, B Sc Sr Demr.
i other Demr

Chemistry, v also Bio-Chem.

Masson, Sir D O, K B E, M A,

D Sc Edin, F R S Prof

Rivett, A C D, M A, B Sc Ox,

D Sc Assoc Prof

Green, W H, D Sc Sr Lectr

Hartung, E J., D Sc Sr Lectr

Sugden, Ruth, M Sc Sr Demr

Ampt, G A, B Sc Sr Demr

Scott, Margaret E, B Sc

Sr Demr

Classical Philology

Scutt, C A, M A Camb Prof

Classics

Kerry, W, M A. Sr Lectr.

Cornwall, E. W, B A (E)

Dentistry, v Affiliated Colls

Dutch

Lodewyckx, A (v German) Instr

Economics, v Pol Econ.

(E.) = Evening Lectr.

- Education** [Prof
Smyth, J, M A, D Phil. Edm.
Sharman, M S, M A, M Sc
(Maths & Sc) Sr Lectr
Marshall, Ida D, M A. (Engl &
Hist) Lectr
..... Lectr
- Engineering, v. also Agric,**
Arch, Metall, Mining [Prof
Payne, H, M I C E, M I M E
Lectrs.
Upton, T H, O B E, M Sc,
M C E, A M I C E
Sr Lectr (Civ E)
Sexton, C W N, B C E (Civ E)
Kernot, W N, M Mech E,
M I C E
Sr Lectr (Design, etc)
Brown, F B, M Sc, A C G I.
Sr Lectr (Elec E)
Melbourne, H E S, B E Adel,
L S Sr Lectr (Surveying)
Millar, S J, B E (Lubrication)
Callaway, A E, C E (Roads)
Bassett, W E, B C E (Mech E)
Summons, W E, M D, D P H
(Ambulance)
4 Demrs
- English Lang and Lit**
Wallace, R S, M A Ox Prof
Derham, Enid, M A Sr Lectr
Price, W T, M A Sr Lectr
Rosenblum, Loris C, M A Tutor
Berry, Beatrice M, B A Tutor
- French**
Chisholm, A R, B A Syd Lectr
Schollick, Margaret S Lectr
Tutor (Science Students)
- Geology and Mineralogy**
Skeats, E W, D Sc Lond,
A R C Sc, F G S Prof
Summers, H St J, D Sc
Assoc Prof
McInerny, Kathleen M M., M Sc
Demr & Asst Lectr
Singleton, F A, M Sc (Agric G)
Sr Lectr
- Chapman, F, A L S (Palæont.)
Lectr
Hauser, H B, B Sc. Sr Demr
i other Demr
- German** [Assoc Prof
Lodewyckx, A, M A, Litt D
Coverlid, Dorothea R, M A
Tutor (Science Students)
- Histology and Human Embryol**
Hurley, L E, M D, M S
Sr Lectr
- History**
Scott, E Prof
Webb, Jessie S W, M A
Sr Lectr
Roberts, S H, B A
Asst Lectr & Tutor
Pennington, Frances E, M A
Tutor
- Japanese**
Inagaki, M Instr
- Law**
Moore, W H, C M G, B A
Camb, LL B Lond, LL D
Prof
Sproule, W S, M A, LL B (Con-
tracts, etc) Lectr
Mackey, Sir J E, M A, LL B
(Equity) Lectr
Gregory, R H, LL B (Land, etc)
Lectr
Fullagar, W K, LL B, B A
(Wrongs, etc) Lectr
Moore, J H, B A, LL M Tutor
O'Bryan, N J, LL B Tutor
- Mathematics, Pure and Mixed**
Michell, J. H., M A Camb, F R S
Prof
Gundersen, G, B Sc Sr Lectr
Barnard, R J A, M A Sr Lectr
- Medicine, v infra**
- Metallurgy**
Greenwood, J Neill, D Sc Prof
Thompson, P. F Lect and Demr.
- Mining**
Merrin, A H, M C E Lectr.

Music

Laver, W. A. Ormond Prof.

Natural Philosophy [Prof

Laby, T. H., M A., Sc D. Camb.

Glasson, J. L., D Sc Sr Lectr

Love, E. F. J., M A., D Sc,
F R A S Sr. Lectr

Hercus, E. O., M Sc. Lectr

Holmes, W. M., M A., B Sc

Lectr

Rossiter, A. L., M Sc Sr Demr

Allen, Natalie C. B., B Sc N Z

Sr Demr

2 other Demrs

Philos., Mental & Moral [Prof

Gibson, W. R. B., M A., D Sc Ox

Bronner, R., B A

Acting Lectr (Advanced
Ethics)

Rosenblum, Vera A., M A Tutor

Murray, C. H., B A Tutor

Physics, v Nat Phil*Physiology*Osborne, W. A., M B., B Ch Belf.,
D Sc Tub ProfYoung, W. J., M Sc Manc., D Sc
LondSr Lectr (P and Bio-
Chemistry)Maxwell, L. A. I., M Sc, B Agr.Sc.,
M D., B S (also *Anæsth*)

Sr Lectr

Barrett, Sir J. W., K B E., C B.,
C M G., M D., M S., F R C S

Eng (P of Spec Senses)

Sr Lectr (Hony)

3 Demrs

Political Economy

Kelly, E. C. W., LL.M. Lectr.

Foenander, O. de R., LL.M.

Lectr

Pub. Health, v. Med.*Sociology*Gunn, Prof J. Alexander, M A.,
Ph D Liv., B Sc Lond

Lectr

Philips, P. D., M A

Tutor

Spanish

Fernandez, R. C. Instr.

Vet Sc, v. *infra**Zoology*Agar, W. E., M A Camb., D Sc.
Glas, F R S ProfSweet, Georgina, D Sc (also Lectr
in Vet Parasit) Assoc Prof.

Buchanan, Gwyneth V., D Sc

Sr Lectr

Raff, Janet W., M Sc Sr Demr

Medicine (for subjects of first
2 yrs — Anat., etc., v *supra*)*Anæsthetics*, v Physiology*Bacteriology*

Bull, R. J., M D., B S Lectr

Rennie, Hilda M., M B., B S

Sr Demr

*Clinical M and Clin Surg*Staffs of the Melb., Alfred, and St
Vincent's Hospls.*Ethics, Med*

[Lectr

Anderson, A. V. M., M D., B S.

Forensic M

Mollison, C. H., M B., B S.,

M R C S Eng Lectr.

Mat Med and Pharmacy

Stanton, B. L., M B., B S Lectr.

M Theory and Practice

Latham, L. S., M D., B S., M A.

Stewart Lectr.

Hiller, K., M D Lectr

Sewell, S. V., M D Lectr

Silberberg, M. D., M D Lectr

Lawton, F. D. H. B., M B Lectr

Obst and Gynæc

[Lectr.

Morrison, R. H., M D., C M Edin.

Pathology

[Prof

Allen, Sir H. B., M D., B S., LL D

Apperly, F. L., M A., D M Ox,

M R C S., L R C P Sr Lectr

... Stewart Lectr

Moore, W. H. J., M B., B S

Sr Demr

Pub. Health [Lectr.
Sinclair, T W, M D, B S, D.P.H

Radiology [Lectr
Cross, K. S, M Sc, M.D, B S

Surgery [Stewart Lectr
Kilvington, B, M D, M S
Hurley, T E V, C M G, M D,
M S, F R C S Lectr
Zwar, B T., M D, M S Lectr
Devine, H B, M B, M S Lectr
Trumble, H C, M B Lectr

Therapeutics
Turnbull, H. H, M D, B.S Lectr.

Venereal Diseases
Morris, A E, M B, B S Lectr

Veterinary Science [Prof.
Woodruff, H A, M R C V S,
M R C S Eng, L.R.C.P.Lond

V. Anat. and Surg.
Lewis, J C, B Sc., D V Sc., M.B.,
B.S Lectr

V Hygiene and Dist.
Cameron, S. S, D V.Sc.,
M R C V S Sr Lectr

V Med and Obst.
Bordeaux, E F. J, B V Sc.,
B ès L, G M V C Lectr

V. Pathology, etc, v. also Zool
Seddon, H R, D V Sc Sr Lectr

University Extension

Gunn, Prof J Alexander, M A,
Ph D Liv, B Sc Lond
Director of Tutorial Classes
15 Tutors.

AFFILIATED COLLEGES (v. also p. 398)

I.—RESIDENTIAL—Controlled by representatives of the Churches but open to members of all religious denominations

TRINITY COLLEGE (Church of England) Warden, J. C V Behan, LL D. Melb, M A, B.C.L Ox Sub-Warden, R L Blackwood, M A Tas and Melb. Other Lectrs C E Weatherburn, M A Camb, D Sc. Syd, Miss E L Mollison, M.Sc, F H Campbell, D Sc, Mrs E Wood, B A, Miss O M Parker, M A, G. Taylor, M A., W S Newton, M D., W A Hailes, M.B., B S, F R C S

ORMOND COLLEGE (Presbyterian) Master, D K. Picken, M A Camb, Glas, and Melb., Vice-Master, H W Allen, M A Other Lectrs Miss E L Mollison, M Sc; F H Campbell, D Sc, Mrs E Wood, B A, Miss O M Parker, M A, K A McKenzie, B A, H R Dew, M B, F R C S, C H. C Searby, M B., B S, O de R Foenander, LL M

QUEEN'S COLLEGE (Methodist). Master, Rev E. H. Sugden, B.A., B.Sc. Lond., Litt.D.

NEWMAN COLLEGE (R.C.) Rector, V Rev J M Murphy, S.J, M A. Resident Tutors W. Ryan, S.J., M A., Dip Ed, D Kelly, S.J, M.A.; P F O'Collins, B A, LL M, Dip Ed, T H Jenkins, B Sc, B C E Non-Resident R O'Sullivan, M.B, F R C S, H B Devine, M B, M.S., T. P. Noonan, M B, B S, Miss J C Cookson, B.Sc, E Piendergast, M B, B S, G. Rush, B A., B Sc., LL B, A Fitzpatrick, B Sc, J A. Clarebrough, D D.S.

II. AUSTRALIAN COLLEGE OF DENTISTRY. President, T. Shuttleworth, D D.S. Superintendent, A G Pooock, B A., L.D.S Other Lecturers (excluding those on Univ. staff) Finlay, G, L D S., B.D Sc (Op. D.); Allen, C. E., D.D Sc. (Mat Med.), Maclure, F, M D., Ch.B.; Yule, E., L.D.S., B.D.Sc., D.D.S. (Or. Surg.), Lewis, J. M, D.D.Sc. (D. Surg., etc), Nicholls, E. B., D.D.Sc (D Anat); Polack, J, D D Sc. (Met.); Robertson, A. W. D,

M.D., B S (Anat.) ; Tuckfield, W. J (D. Mech. and Met.) ; Wilkinson, W S , L.D.S., D.D.S. (Orth.) ; Sissons, A T. (Chem.) , Down, C. H , L.D.S , B D Sc. (Op. Tech.) ; Clark, J. K., L.D.S , D D.Sc. (D Anat.).

GENERAL INFORMATION (v. also p. 398)

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1904 the annual grant of £9000 was increased by £11,000, enabling the Mining and Agric Depts. to be developed. At the same time 3 Parliamentary Members were added to the Council of 20 elected by the Senate. In 1909 a further annual grant of £4200 was sanctioned for a Vet. School. In 1921 the invested Trust funds amounted to £247,700, Govt. grants £38,900, fees £71,600, and expenditure on salaries £79,900. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, including the Med. and Chem. Departs., 45,000 vols. **MUSEUMS AND LABS.**, Anat., Biol., Engin., Geol., Path. (15,000 specimens), Vet. **LABORATORIES**, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. **VET. RESEARCH INSTITUTE** **WERRIBEE RESEARCH FARM.** **HALL RESEARCH INSTITUTE** in connexion with Melbourne Hosp]

FACULTIES. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Archit., Metall., Mining), Agric. Conservatorium of Music (Director).

DEGREE COURSES 3 yrs.—B A (ordy and with Honrs.), B Sc, Mus.Bac , 4 yrs.—B Sc (Honrs.), LL B, B D Sc, Lic.V Sc, B V Sc, B C.E, B M E, B Met E, B E E, B Mech E, B Agric Sc, 5½ yrs.—M B, B S

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc. ; 2 yrs.—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc., 3 yrs.—D.V.Sc., 4 yrs.—D Litt, D Sc, LL D, 5 yrs.—D Eng, 6 yrs.—Mus D Courses of **MEDICAL POST-GRADUATE STUDY** arranged by special Committee on which Univ. is represented

DIPLOMAS (which except Dip.Ed. can be taken without Matricn.) **Educn.**, 3 yrs.' course which may include 2 yrs. of the course for any degree in the Univ.; **Analyt. Chem.**, 9 mos. following Final Hons. in Chem., D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 9 mos.; **D.T.M.**, open to Aus. Med. practrs. of 1 yr.'s standing, 3 mos., **Metall. or Mining**, 3 yrs., **Archit.**, 4 yrs.; **Agric.**, 3 yrs., of which the 3rd is spent at an Agric. Coll.

The Act of 1904 provided for the admission without fee of at least 80 students for 4 yrs.' courses in Mining and Agric. Each year 20 teachers of the **Educn. Dept.** are admitted without fee to the Diploma course, and special concessions in fees are made to all certif. teachers and students of Training Colls. who are candidates for the Dip.

SCHOLARSHIPS, ETC. Aggregate annual value about £8914. Among the more important are £100 in Pathology, £100 for Econ. Research, £100 (for 2 yrs.) in Geol. and in Vet. Anat., £100 in Anat., £100 for Scientific Research.

RESIDENCE. The Affiliated Colls. (v. *supra*) accommodate over 400 resident students.

ADULT EDUCATION. Tutorial classes are conducted in the city and suburbs and 6 country centres

PUBLIC EXAMINATIONS. School Intermediate and School Leaving are held by the Univ. annually in Dec. ; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools.

PUBLICATIONS. *Calendar*, 3s. net, includes list of publicns. by members of staff ; *Univ. Mag.* ; *Univ. Review* ; *Speculum* (Med. Students' Journal), *Examn. Papers*, 1s ; *Students' Handbook*, 1s , *Handbook of Pub. Examns*, 2s 6d ; *Conservatorium Prospectus*, *Manual of Pub. Examns in Music*

THE YEAR 1921-22

BENEFACTIONS Late Dr W Beattie Smith, £1000, appeal fund increased to £50,600

RETIREMENTS AND RESIGNATIONS J R Maguire, E J Nanson, Prof D O Masson (Chem.), as from end of 1923 (to be succeeded by Dr A C D. Rivett) **DEATH** A J Higgin

DEGREES CONFERRED B A and B Sc, 123, LL B, 35, M B and B S, 59, B C E, B M E, B Met E, B E E, and B Mech E, 17, Mus Bac, 2, B D Sc, 12, B Agr Sc and B V Sc, 4, Masterships, 51, Doctorates, 19

NUMBER OF STUDENTS Total (except Music), 2476, including women, 500, evening, 231, research, 4, full degree course, 2206

ADULT EDUCATION Tutorial class students, 540

UNIVERSITY OF QUEENSLAND, BRISBANE

[No returns received in 1923]

CHANCELLOR—Rt Hon Lt-Col Sir MATTHEW NATHAN, GCMG,
RE, Governor of Queensland

VICE-CHANCELLOR—Hon A J THYNNE.

REGISTRAR AND LIBRARIAN—F W S CUMBRAB-STEWART, DCL Ox.,
Barr-at-Law

PROFESSORS, LECTURERS, ETC., September 28, 1922

Biology

Goddard, E J, BA, DSc Syd
Prof
Cayzer, A, BSc Syd Lectr
Walker, Mavis J, MSc Adel
(Tempy) Sr Demr &
Asst Lectr

Chemistry

Steele, B D, DSc Melb, FIC,
FRS Prof
Bagster, L S, BSc Melb (Ap-
plied C) Lectr
Jones, T G H, BSc Syd, AIC
Lectr
Connor, E A O, MSc Melb
Sr Demr & Asst Lectr

Classics

Michie, J L, MA Camb Prof
Castlehow, S, MA Ox Lectr

Engineering

Hawken, R W H, BA, ME
Syd, MICE Prof.
Boyd, A, DSc Lond, BE,
MIEE, AMICE
Lectr (Mech & El E)

Sr Demrs & Asst Lectrs :
Munro, A R, AMICE,
AMIME
Ross, C N, MSc, BME Melb

English Language and Lit

Stable, J J, MA Camb
McCaughey Prof

English, French, and German

Kirwood, A E M, MA Melb
(Tempy) Lectr
Schindler, C, MA (Tempy) Lectr.

Geology and Mineralogy

Richards, H C, DSc Melb
Prof
Bryan, W H, MSc Lectr.

History and Economic Science

Alcock, H, MA Ox.
McCaughey Prof
Melbourne, A C V, BA Adel
Lectr in Econ and
Colonial H
Gifford, J L K, MA Glas

Mathematics

Priestley, H J, MA Camb Prof
Priest, H J, BA, BSc Adel.
Lectr
Swanwick, K Ff, BA, LLB
Syd Evening Lectr

Medical Psychology

Lowson, J P, MA, MD. Edin
Research Prof

Philosophy

Mayo, G E, BA Adel Prof.
Edwards, L D, MA
(Tempy) Lectr.
Flinn, Isabel M, MA Melb
(Tempy.) Lectr.

Physics

Parnell, T, M A Camb. Prof
 Lusby, S G, M A Syd Lectr.
 Rimmer, T, M Sc Manc
 Sr Demr & Asst Lectr.

Correspondence Studies

Jones, T E, B A Syd Director.
 Darvall, Annie E, B A
 (Tempy) Asst

RECOGNIZED RESIDENTIAL COLLEGES

EMMANUEL (Presb). Principal—R Glaister, M A, D D

St JOHN's (C of E) Warden—Rev W H W Stevenson, M A. Syd

KING's (Methodist) Master—L E Bennett, M A, B D

St LEO's (R C). Rector—Rev E Barry.

WOMEN's (undenominational) Principal—Freda Bage, M Sc Melb., F L S.

GENERAL INFORMATION (v. also p. 398)

The Univ was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 were appointed by the Government and 10 were elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ of 3 yrs' standing, persons appointed by the Govt as representatives of Commercial, Industrial, Scientific, etc., Assocns, benefactors, etc). The annual grant from Govt was £10,000 until 1917, when it was raised to £15,000. Under the will of the late Sir Samuel McCaughey, the Univ. receives an annual income of about £7500.

The grounds, facing the Brisbane River and adjoining the Botanical Gardens, include, in addition to the main building and recreation grounds, 6 departmental buildings and the Central Technical College.

LIBRARY, 23,000 vols **LABORATORIES** Biol, Chem, Applied Chem., Engin, Geol, Metall and Assaying, Physics

FACULTIES. Arts, Science, Engineering

DEGREE COURSES 3 yrs—B A, B Sc, 4 yrs—B Sc (Applied) in Industrial Chem, B E in Civ, Mech and Elec, or Mining Engin

A Diploma Course in Mech and Elec Engin (may be followed in any approved Coll or Instn), 4 yrs; a Diploma course of at least 2 yrs for persons who have had 3 yrs.' practical experience of Journalism

HIGHER DEGREES M A and M Sc., open to B A. and B Sc of 2 yrs' standing, through examn (M A, examn and thesis) M E, open to B E of 3 yrs' standing, 25 yrs of age, engaged in professional work. D.Sc open to M.Sc of 5 yrs.' standing by examn and thesis

EVENING LECTURES AND EXTERNAL STUDENTS Evening students may extend their course over 5 yrs in Arts and Sc. No evening work in Engin subjects is done, but by 5 yrs of evening work elsewhere exemption from the first 2 yrs of the B E course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ may pursue certain courses under the guidance of the Director of Correspondence studies. They may thereby, provided they

pass the prescribed examns. (which may be held at local centres), qualify for a B A. degree.

ADULT MATRICULATION Candidates who have attained the age of 25 yrs. may be admitted to matricn in the Faculties of Arts and Science upon passing a special examn

SCHOLARSHIPS, ETC, FOR GRADUATES 2 gold medals offered by Govt. for distinction at graduation, £100 for 2 yrs for Chem Research, £200 for 1 yr for Engin work, £250 for study outside Australasia, £300 for 3 yrs (W. and E Hall Foundation), of which 2 to be spent abroad in Engin Research; £500 for 2 yrs in Econ Biol

RESIDENCE Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll or boarding-house licensed by the Senate Fees in the Colleges, including residence, commons, and tuition, 20 gs a term (Women's £20, St Leo's £20).

PUBLICATIONS *Calendar*, 2s 6d, *Manual of Pub Examns*, 1s

THE YEAR 1922

NEW POSTS McCaughey Profs in History and Economic Science, and in English Language and Literature

OTHER DEVELOPMENTS Bill for raising annual grant from £15,000 to £20,000 was presented to Parliament

DEGREES CONFERRED B A, 31 (including 14 women), M A, 2, B Sc, 9 (women 3), B Sc App, 1, M Sc, 1, B E, 7, M E, 1.

NUMBER OF STUDENTS. Matriculated, 117, including 39 women

UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR

CHANCELLOR—Hon Sir WILLIAM PORTUS CULLEN, K C M G , M A ,
LL.D., Chief Justice of N S W

VICE-CHANCELLOR—CECIL PURSER, B A , M B , Ch M

WARDEN AND REGISTRAR—H E. BARFF, C M G , M A

ASSISTANT REGISTRAR—W A SELLE, B A

LIBRARIAN—H M GREEN, B A , LL B

STUDENT ADVISER AND APPOINTMENTS OFFICER—Brig -Genl I G
MACKAY, C M G , B A

TUTOR TO WOMEN STUDENTS—ISABEL M FIDLER, B A

PROFESSORS, LECTURERS, ETC., September 1923

Accountancy, v Com

Agriculture

Watt, R D , M A , B Sc Prof
Lectrs

Waterhouse, W L , B Sc Agr
(Plant Path and Agr Bot)

Wright, G (A Chem).

Baker, R T , F L S (Forestry)

Wolstenholme, E K , F L S (Fruit
Culture).

Anatomy

Hunter, J I , M B , Ch M

Challis Prof

Lectrs and Demrs

Maguire, F A , D S O , M B ,
Ch M , F R C S

Burkitt, A N St G H , M B , B Sc

Dixon, J R , M R C S

Lectr (*Histology*)

Coen, B J , M B

Demrs

Darling, H R , M B , M S Lond ,
F R C S Eng

Storey, J C , O B E . , M B , Ch M ,
F R C S

Teece, L G , M D , Ch M

Edye, B T . , M B , Ch M , F R C S

Fisher, E M , M B , Ch M.

Wassell, C E , D S O , M B . , Ch.M.

Chapman, C L , M B , Ch M

Silverton, R J , M B , Ch M

Coppleson, V M , M B , Ch M

11 Hony Demrs

Architecture

Wilkinson, L , A R I B A Prof

Hook, A S (Constn) Lectr

Carter, N (Freehand Dr) Instr

Moore, J D (Design) Lectr

Berry, J L (Med Arch) Lectr

Harris, R K , A R I B A (Town
Planning) Lectr

1 Demr , 1 Studio Asst

Astronomy

Cooke, W E , M A Prof

Furber, T F (Geodesy & A) Lectr

Botany, v also Agric

Lawson, A A . D Sc Prof.

Lectrs & Demrs

McLuckie, J , M A Glas , D Sc

Brough, P , M A , B Sc , B Sc Agr
Glas

2 other Demrs.

Chemistry

Fawsitt, C E , D Sc Edin , Ph D

Leip Prof

Schofield, J A , A R S M , F I C.

Assoc Prof

Lectrs & Demrs

Brereton, E. Le G , B Sc.

Burrows, G J . , B Sc

6 other Demrs

Chem., Assaying and Metall.
 Eastaugh, F. A., A R S M, F.I.C.
 Asst Prof.

Chem., Organic, Pure and Applied
 Harker, G., D.Sc. Lond.
 Acting Prof
 Earl, J. C., B Sc. Adel., Ph D.
 St And. Lectr
 i Demr.

Classics
 Woodhouse, W J, M A. Ox
 (Greek) Prof
 Todd, F A, B A, Ph D. Jena
 (Latin) Prof
 Powe, A B, B A Q'ld (Latin)
 Lectr
 Robinson, A H, M A (Latin)
 Lectr

Commerce
 Carter, G P, A C A, A C P A
 (Acctcy) Lectr
 Braddon, Sir Henry, K B E,
 M L C (Business) Lectr
 Cleary, W J, B Ec. (Business)
 Lectr
 Stacy, B. V., C M G, D S O, B A,
 LL B. (Com & Indust. Law)
 Lectr

Dentistry, v infra

Economics
 Mills, R C, LL M Melb, D.Sc
 Econ Lond Dean and Prof
 Benham, F C, B Sc (Econ)
 Lond Lectr.
 Portus, G V, B Litt Ox, M A
 (E Hist) Lectr
 Bland, F. A, M A, LL B (Pub.
 Admn) Lectr.
 Watts, P R., B A, LL B (Pub
 Admn) Lectr
 Sawkins, D T, B A Camb., M A
 (Statistics) Lectr.

Education
 Mackie, A, M A. Prof
 Cole, P. R., M A, Ph.D Col Lectr
 Roberts, T T., M A. Lectr.
 Cameron, R. G, M A. Lectr.

Phillips, G., M.A., D.Sc. (Exper.
 E) Lectr.

Engineering, v. infra

English Language
 Holme, E R, O B E., M.A.
 McCaughey Prof.

English Literature
 MacCallum, M. W., M A, LL D.
 Glas. Hon Prof.
 Brereton, J Le Gay, B.A. Prof.
 Waldock, A. J A., B A. Lectr

Forestry, v. Agric.

French
 Nicholson, G. G, C B.E., B C.L.
 Ox, M A. Prof.
 Marks, Gladys, B A Lectr.
 Andraud, R A F, L ès L Lectr

Geodesy, v. Astron

Geography
 Taylor, T G, D Sc, B E
 McCaughey Assoc. Prof

Geology and Phys. Geog
 David, Sir T W. E., K.B.E.,
 C M G, B A, D.Sc. Ox,
 F R S (on leave)
 Prof & Hovell Lectr.
 Cotton, L A, M A, D Sc

Acting Prof
 Browne, W R, D Sc Asst Prof
 Waterhouse, L. L., B E.
 Lectr & Demr.

Powell, Dorothy E, B Sc Demr
 Osborne, G D, B Sc Demr.
 Brown, Ida A., B Sc Demr.
 Dun, W. S. (Palæont) Lectr.

German and Comparative Lit.
 Brennan, C J, M A
 McCaughey Assoc. Prof.

History, v. also Econ.
 Wood, G. A, M A Ox
 Challis Prof
 Bruce, J F, B A Ox., M.A. Lectr

Law, v infra

Mathematics, Pure and Applied
 Carslaw, H S., M.A, Sc.D Camb.,
 D Sc. Glas. Prof.

Lyons, R J, B A Camb Lectr
 Wellish, E M, B A Camb, M A
 (Appl M) Lectr
 Thorne, H H, M A Camb, B Sc
 Lectr.

Medicine, v infra

Metallurgy, v also Chem
 Turner, B W, A R S M
 Russell Lectr

Mining

Power, F D, F G S Russell Lectr

Oriental Studies

Sadler, A L, M A Ox Prof
 Okada, R (Japanese) Reader

Philosophy [Challis Prof
 Muscio, B, M A Syd and Camb

Physics

Vonwiller, O U, B Sc Prof
 Lectrs & Demrs
 Mackay, I G, C M G, B A
 Booth, E H, B Sc
 Briggs, G H, B Sc
 2 Temp Lectrs & 2 other Demrs

Physiology

[Prof
 Chapman, H G, M D, B S Melb
 Priestley, H, M D, Ch M, B Sc
 McCaughey Assoc Prof

Lectrs & Demrs

Cotton, F S, B Sc
 McQuiggin, H G, B Sc
 Wardlaw, H S H, D Sc
 Hindmarsh, Ellen M, B Sc
 Demrs.

Ingram, W W, M D, Ch B
 Beveridge, Lorna D, M B, Ch M,
 B Sc

Hamilton, Ellice E P, B A, B Sc
 Horsfall, W N, M B, Ch M

Preventive Medicine

Sutton, Harvey, M D, Ch B,
 D P H Melb, B Sc Ox
 Lectr

Psychology

Lovell, H T, M A, Ph D Jena
 McCaughey Assoc Prof
 Martin, A H, M A, Ph D. Col
 Lectr

Surveying [Russell Lectr
 Craig, A D, B A, B E
 3 Demrs

Veterinary Science

Stewart, J D, M R C V S,
 B V Sc Prof
 Dodd, S, F R C V S, D V Sc
 Melb (Path, etc) Lectr
 Gunn, R M C, B Sc (Agr),
 Birm & Syd, M R C V Sc
 (Surg & Anat) Lectr.
 Henry, M, B V Sc (State Vet
 San Sc) Lectr
 Carne, H R, B V Sc (Vet Mat
 Med and Parasitol) Lectr

Zoology

[Challis Prof
 Harrison, L, B A Camb, B Sc
 Briggs, E A, B Sc Lectr & Demr
 Chase, Eleanor E, B Sc
 Lectr & Demr
 Thomas, Ethel M, B Sc Demr
 Nicholson, A J, M Sc. Manc
 (Entom) Lectr

Engineering, v also Mining

Warren, W H, M I C E, L L D
 Challis Prof
 Miller, W A, B Sc, M E (Civ E)
 Asst Prof
 Debenham, A J, B E Lectr
 Larkins, H M, B E Lectr
 Carleton, G B, M E Lectr
 Vicars, J, M E Lectr
 Hodgson, C A, M A (Camb)
 Lectr
 2 Demrs

Electrical E

Madsen, J P V, B E, D Sc.
 Adel Russell Prof
 Lectrs & Demrs
 Sharp, L H, B Sc., B E
 Campbell, E F, B E

Mechanical E

Barracrough, Sir S H E, K B E,
 M M E Corn, B E, M I M E,
 M I C E. Russell Prof

Sutherland, G F, A R C S

Asst Prof

Lectrs & Demrs

Swain, H J, B A, B Sc, B E

Gibson, W H H, B Sc, B E

Hebblewhite, W R, B E

Law, v also Com.

Peden, The Hon. J B, M L C,
B A, LL B Challis Prof

International Law & Jurispr

Charteris, A H, M A, LL B
Edin Challis Prof

Contracts, Merc Law, Torts

Street, K W, B A, LL B
Challis Lectr

Equity and Company Law

Hooton, J R, B A Ox and Syd
Challis Lectr

Bankruptcy and Probate

McDonald, E F, LL B
Challis Lectr

Divorce

[Challis Lectr
Mackenzie, W K S, D S O, B A

Procedure, Pleading, & Evidence

Edwards, D S, B A, LL B
Challis Lectr

Interpretation

Evatt, H V, M A, LL B
Challis Lectr

Roman Law

[Challis Lectr
MacCallum, M L, M A, B C L Ox

Conveyancing

Watts, P R, B A, LL B Reader

Medicine (for Preventive M and
Anat, Chem, etc, v *supra*)

Anæsthetics

Lidwill, M C, M D Tutor
Adams, H C, M B, Ch.M. Tutor.

Diseases of Ear, Nose, Throat

Marks, H J, M A, M D Lectr

Diseases of the Skin

[Lectr
Molesworth, E H, M B, Ch M.

Ethics of Med Pract.

[Lectr
Todd, R H, B A, M D, Ch B.

Gynæcology

Barrington, F, M B, Ch M Edin,
F R C S Eng. Lectr.

Infectious Diseases [Hon. Tutor.

Millard, R J, M B, Ch.M.

Materia Med

Macpherson, J, M A, M.B,
Ch M, B Sc Lectr.

Stroud, S H, F I C

Lectr in Pharmacy.

2 Demrs in Pharmacy

Medical Jurispr.

[Lectr.
Todd, R H, B A, M D, Ch B

Med, Principles, etc

Mills, A. E, M B, Ch M Prof.

Medicine, Clinical

Gilhes, S, M A, M D. Lectr.

Blackburn, C B, O B E, M D,
Ch M Lectr.

Gill, J M, M D, L R C P,
M.R C S Lectr.

Fairfax, E W, M B, Ch M

Med Tutors

Smith, S A, M B, Ch M

Clayton, H J, M B, Ch M

Willcocks, G C, M B

Dunlop, L W, M B, Ch M

Obstetrics

[Lectr
Windeyer, J C, M B, Ch M

Craig, F B, M B, Ch M Tutor.

Furber, R. I, M B, Ch M Tutor.

Gibson, A J, M B, Ch M Tutor.

Ophthalmology

Waddy, R G, M B, Ch M Lectr.

Pathology

Welsh, D A, M A, B Sc, M D,
F R C P Edin. Prof

Inglis, W K, M D, Ch M

Lectr. & Chief Demr.

Little, E Marjory, M B. Demr

Edye, B T (v Anat) Demr.

Hon Demrs

Walker, A S, M D, Ch M

Hughes, L H, M D, Ch M.

Latham, O, M B, Ch M

Munro, A. Watson

Psychiatry
Macpherson, Sir J, K B E, C B,
M D, F R C P Edin Prof

Surgery, Principles, etc
Sandes, F P, M D, Ch M, B Sc
McCaughy Prof

Surg, Clinical
Abbott, G H, B A, M B,
Ch M Lectr

Craig, R. G., M.B., Ch M Lectr

Dansey, R J St J, M B, Ch M
Lectr
Corlette, C E, M D, Ch M Lectr
Tutor
Tutor

Dental Science

Reading, R F, M R C S, L R C P,
L D S Eng McCaughy Prof
Deck, E, D D S (Mech D) Lectr

Marshall, F, D D S (Mech D)
Lectr

Gates, E C, D D S (Chn D)
Lectr

Ash, P A, D D S (Surg D) Lectr

Smith, Donald (Surg D) Lectr

Charlton, P C, L D S, D M D
(Dental Mat Med) Lectr

2 Demrs

University Extension

Mackay, I G, C M G, D S O,
B A. Secy to the Board

Portus, G V (v *supra*, Econ)
Dir of Tutorial Classes.

Bland, F A (v *supra*, Econ)
Asst Director

1 full-time tutor and 32 tutorial
class lectrs

COLLEGES WITHIN THE UNIVERSITY

ST PAUL'S COLLEGE (Anglican) Warden—Rev A H Garnsey, M A,
Lectr in *Div* and *Classics* Sub-Warden—K B Voss, B E Lectr in *Med*
—H J Clayton, M B, Ch M, E M Fisher, M B, Ch M, Mona Ross, M B,
Ch M. *Arts Subjects*—T Moore, B A *Science*—F H. H Wilson, B Sc
Law—W B Simpson, LL B

ST JOHN'S COLLEGE (R C) Rector—Very Rev M J O'Reilly, Lectr in
Christian Apologetics Vice-Rector—Other Lectrs *Med*—H M
Moran, M B., Ch M. *Scholastic Philos*—Rev. P Dalton. *History*—Very Rev.
J. O'Dwyer

ST. ANDREW'S COLLEGE (Presb) Principal—E E Anderson, M A, D D
Aberd Vice-Principal—A L Campbell, M B E, B A, B E Secretary—
S. J. Carruthers Hunter-Baillie Profs *Oriental and Polynesian Langs*—
A Harper, M A, D D *Engl. Lang. and Lit*—R. G Macintyre, M A, D D
Lectrs *Law and Latin*—J. R Nield, B A, LL B *Med*—E M Fisher, M B,
Ch M *Pathology*—M Ross, M B, Ch M *Science*—G H Clarke, B Sc
(*Biol*); J G Stephens, B Sc (*Phys and Chem*) *Religion*—The Principal
Engl, Hist, and Philos—T Moore, B A *Engin and Maths*—G A. Stuckey,
B Sc, B E

WESLEY COLLEGE (Methodist) Master—Rev L E Bennett, M A Melb,
B D. Lond Tutors *Philos and Class* — ; 6 Tutors in *Med*.

THE WOMEN'S COLLEGE (undenominational) Principal—Miss S. J.
Williams, M A Melb and Syd, Lectr in *Classics*. Vice-Principal—Miss M K.
Brown, Lectr in *Hist* and Librarian. Tutors Miss M A Clarke, B A.
(*French and German*), Miss P Nichol (*Physics*); Miss Abramovitch, B A.,
M B, Ch M (Med), Miss M Rivett, B A Syd and Camb. (*Psychology*)

GENERAL INFORMATION (v. also p. 398)

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted
a Royal Charter in 1858. Its development has been largely due to private

benefactions, notably those of J. H. Challis—£250,000—in 1880, T Fisher—£30,000 for Library—in 1885, and P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904. Under the will of Sir S. McCaughey it will receive £15,000 p.a. In 1912 the Statutory endowment was raised from £10,000 to £20,000 with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917-18 the Statutory endowment was further increased by £32,000, including £2000 for the new School of Archit. Private Foundations balances amounted in 1922 to £598,570, Govt grants to £68,170, fees £42,590, expenditure on salaries £112,875, including £9206 from the Challis Fund, and £12,817 from the McCaughey Fund. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The LIBRARY, 130,000 vols., receives over 750 serial publications. MUSEUMS Nicholson collection of Egypt., Greek, Roman, and Medieval Antiq. (4000 specimens), Macleay Nat. Hist.; Anat., Geol., and Zool. LABORATORIES Schools of Med., Engin., and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. Arts, Law, Med., Science, Engin., Dent., Vet. Sc., Agric., Econ., Archit.

DEGREE COURSES 3 yrs.—B.A., B.Sc.; 4 yrs.—B.Sc. in Agric. (3 for diplomate of recog. Agric. Coll.), B.Ec., LL.B. (after completing 1st yr. in Arts or passing Law Entrance Examn.), B.D.S., B.V.Sc., B.E. (in Civ., Mining and Metall., or Mech. and Elec.), 5 yrs.—B.Arch., 6 yrs.—M.B., B.S., 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 5 or 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk. HIGHER DEGREES Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., 3 yrs.—D.Sc., M.E. DIPLOMAS Educn. (for graduates in Arts or Sc.), 1 yr.'s course, Econ. and Comm., 3 yrs., D.P.H., D.T.M.; Psychiatry. Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Syd.

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of £150 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Scholps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for 180 students, the Women's Coll. for 28.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1922 the Govt. grant for this purpose was £6370, 59 classes were at work, including 1650 effective students.

ADULT MATRICULATION Persons of distinct educational merit who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Arts, Science, and Econ.

PUBLICATIONS. *Calendar* publ. in June, 3s. 6d., with annual report and list of publicns. of Univ. Staff, Reprints of Scientific Papers by members of the Staff, *Hermes*, an undergrads' mag.

THE YEAR 1922-23

BENEFACCTIONS. Elizabeth R. Caud bequest, £5000 to found scholarships, Venour Nathan, £400 to increase his prize for Australian History; Commercial Banking Company, gift of building stone, Ernest F. Simmonds, about £4000 to found scholarships.

NEW BUILDINGS Additions to main building to provide additional lecture rooms and administrative offices, £51,000. Additions to Union building to provide further accommodation for men undergraduates, £14,500. Remodelling and enlarging of Zoology School, £13,300. New building for Physics Dept., £82,400. Remodelling of Organ in Great Hall, £3100.

NEW POSITIONS Asst. Profs. of Civil Engin., Mech. Engin., and Geology.

OTHER DEVELOPMENTS Medical course extended from 5½ to 6 years. Italian included as subject for matric. examn. Japanese included in curriculum of Faculty of Arts. Diploma course in Psychiatry established. Appointment of Sub-Committee and Committee of Direction on Cancer Research.

DEGREES CONFERRED (1922) M.A., 16, B.A., 122, B.Ec., 14, LL.B., 30, M.D., 1, M.B., 112, Ch.M., 112, B.D.S., 11, D.Sc., 2, B.Sc., 44, M.E., 1, B.E., 37, B.Sc. (Agric.), 3, B.V.Sc., 3, B.Arch., 8. Total, 516.

RETIREMENTS AND RESIGNATIONS Prof. J. Read, A. J. Aspinall, R. H. Chapman, R. A. Dallen, C. G. Davidson, N. A. Esserman, A. A. Frizelle, A. W. Holmes à Court, E. Hurst, Hilda Kincaid, A. Lewis, J. L. McKelvey, C. MacLaurin, J. H. Maiden, W. S. Mayer, S. J. H. Moircau, T. W. Murphy, A. B. A. Palmer, W. L. Price, H. J. Ritchie, F. A. A. Russell, G. W. Thatcher, T. Whitehouse, R. K. E. Woodhouse. **DEATHS** Sir H. Martland, Dr. G. E. Rennie.

STUDENTS (1923) Graduates and Research. Arts, 18 (including women—7), Med., 4, Science, 12 (women—8), Engin., 3, Vet. Sc., 1, Agr., 1. Preparing for Dip. Ed., 67 (w.—40), for first degree in Arts, 547 (w.—260), including 170 evening students (w.—54), in Law, 348 (w.—12), Med., 744 (w.—79), Sc., 189 (w.—95), Engin., 169, Dent., 71 (w.—3), Vet. Sc., 15, Agr., 25, Econ., 113 (w.—26), Archit., 40 (w.—14), for Dipl. in Econ. and Com., 83 (w.—15), in Phm., 217 (w.—25), in Massage, 6 (w.—3). Total regular students, 2643 (w.—584). Attending special and individual courses, 112 (w.—38).

UNIVERSITY OF TASMANIA, HOBART

VISITOR—H E THE GOVERNOR

CHANCELLOR—Hon TETLEY GANT, C M G , M A

VICE-CHANCELLOR—W J T STOPS, LL B

REGISTRAR—Lt -Col L R THOMAS, D S O

LIBRARIAN—E MORRIS MILLER, M A , Litt D

PROFESSORS, LECTURERS, ETC., September 12, 1923

Accountancy and Auditing
Smith, V C , A I C A Lectr

Biology [Ralston Prof
Flynn, T. T , D Sc Syd

Chemistry
MacLeod, P J , B A N Z Lectr
Kurth, E E Demr

Classics and English Lit
Dunbabin, R L , M A Ox Prof
(Classics) Prof

Economics
Copland, D B , M A N Z Prof
Brigden, J B , B A Ox

Pitt-Cobbett Lectr
Judd, W , M A Melb (Hist and
E) Lectr

Education
Johnston, J A , M A N Z Lectr

Engineering
Burn, A , B E Syd , M Sc Prof
Canning, R W , A M I C E ,
A C G I Lond
Lectr in Elec E and
in Maths

History, v also Econ
King, C S , M A Ox , B A Lectr

Law
McDougall, D G , M A , B C L.
Ox , M A , LL D Melb Prof
Griffiths, P L , M A Melb , LL B.
Lectr

Mathematics, v also Engin
McAulay, A , B A Camb , M A
Melb Prof

Modern Languages
Malthus, C , M A N Z Lectr

Psychology and Philosophy
Miller, E Morris, M A , Litt D
Melb. Lectr

Physics
McAulay, A L , B A Camb ,
Ph D Manc , B Sc Lectr.

Tutorial Class Lectrs.

Prof Copland (Director), the
Lectrs in Economics, and 4
others

AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL SCHOOL

LAUNCESTON TECHNICAL SCHOOL

GENERAL INFORMATION (v. also p. 398)

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ.
was, in 1915, granted a Royal Charter. To the original Faculties—Arts,

Science, and Law—Commerce was added in 1919 and Engineering in 1922. The annual Govt. grant is £10,670.

ADMISSION OF PERSONS OF MATURE AGE Persons not below 25 yrs of age who satisfy Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matriculation.

LIBRARY, 17,600 vols. **LABORATORIES** Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. **OBSERVATORY**, 8" reflector telescope.

DEGREE COURSES 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. **HIGHER DEGREES** Open to Bachelors of 2 yrs' standing, M.A., M.Sc., LL.M., M.Com., 3 yrs' D.Sc., to Masters of 3 yrs' standing, LL.D. **DIPLOMAS** of the Affiliated Schools Metall. Mining, Metall., Chem., and Assaying. **CERTIFICATE** of Commerce, 2 yrs' course.

UNIVERSITY EXTENSION Tutorial classes, annual grant, £1780.

PUBLIC EXAMINATIONS Intermediate and Leaving (minimum ages, 14 and 16), Music (held in conjunction with other Australian Univs.).

PUBLICATIONS. *Calendar* (Aug.), 2s.; *Pub. Examin. Manuals*, 2s.; *Degree Examin. Papers*, 1s. Univ. news appears in *Hobart Mercury* and *World Students' Magazine*, *Platypus*.

THE YEAR 1922-23

BENEFACTIONS. Sir Philip Fish bequest, £50 p.a. for founding a scholarship and 3 annual prizes; friends of late D. Ellerton Brown, £100, to found a prize for encouraging Imperial studies in schools; Rev. E. Bean, £50 to found an English essay prize; Mrs. Nellie M. Ewers bequest, £100 for annual prize *Government Grant*, £10,670, and, for W.E.A. and Tutorial Classes, £1780.

NEW BUILDINGS, ETC. Laboratories and lecture-rooms for Elec. Engin. and Physics nearly completed.

NEW REGULATIONS of new B.E. degree.

NEW POSTS Pitt Cobbett Lectr. in Economics.

RESIGNATIONS Prof. W. H. Williams (Classics and English Lit.), H. H. Cummins.

DEGREES CONFERRED. B.A., 15; (including women—8), B.Sc., 7, LL.B., 3; M.A., 5 (1 woman).

NUMBER OF STUDENTS. Preparing for Bachelor's degree in Arts 95, Sc. 30, Law 15, Engin. 22, Comm. 24; graduates, 9, occasional, 39.

UNIV. EXTENSION. Tutorial classes in 1923 in Industrial Management, Library Appreciation, Psychology, Botany, European Politics.

UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H E THE GOVERNOR

CHANCELLOR—Hon A J. H SAW, O B E , M.L.C , M A , M D

PRO-CHANCELLOR—CECIL ANDREWS, M A

VICE-CHANCELLOR—Prof E O. G SHANN, B A

WARDEN OF CONVOCATION—W A G WALTER, M A

REGISTRAR—.....

PROFESSORS AND LECTURERS, September 1923

<i>Agriculture</i>				<i>History and Economics</i>			
Paterson, J W ,	B Sc	Edin ,		Shann, E O G ,	B A Melb.	Prof.	
Ph D	Leip	Prof		Whitfeld, L O'G ,	B A Ox	Asst	
<i>Biology</i>				<i>Mathematics and Physics</i>			
Nicholls, G E ,	D Sc	Lond ,		Ross, A D ,	M A , D Sc	Glas	
A R C Sc		Prof		F R S E ,	F R A S ,	F Inst P	
Reed, Eileen R L.,	B Sc	Adel				Prof	
		Asst		Thompson, R D ,	M A	N Z ,	
Milner, Dorothy,	B Sc	Demr		M Sc ,	F R A S	Lectr	
<i>Chemistry</i>				Moir, Margt B ,	M A , D Sc	Glas	
Wilsmore, N T M ,	D Sc	Melb ,				Lectr	
F I C		Prof		Orton, A A ,	B A , B Sc.	Asst.	
Tattersall, G ,	M Sc	Manc ,	F I C	<i>Mining and Engineering</i>			
		Assoc Prof		Whitfeld, H E ,	B A ,	B E	
Babington, P		Demr		Syd.,	M I M M	Prof	
<i>Classics</i>				Tomlinson, A ,	M Sc.	Manc.,	
Wood, G ,	M A	Aberd	Assoc Prof	A M I C E		Assoc. Prof	
Laidlaw, W. A ,	M A		Lectr	Fraenkel, P H ,	B E E	Melb ,	
<i>Education</i>				A M I E E		Lectr.	
Rooney, W J ,	B A	Syd	Lectr	McLagan, W		Lectr	
<i>English</i>				Townsend, W G ,	A M I E A		
		[Prof				Demr	
Murdoch, W L F ,	M A	Melb		<i>Philosophy</i>			
Thompson, H S ,	M A	Lectr		Fox, A C ,	B A Syd.	Lectr.	
<i>French and German</i>				Laidlaw, W A ,	M A	Lectr	
Irving, G T ,	M A	Edin	Lectr	<i>Surveying</i>			
D'Herbois, R C			Lectr	Nunn, G M.,	L S.	Assoc	Lectr
Graebner, R M			Lectr	<i>Veterinary Science</i>			
<i>Geology</i>				Le Soeuf, E A ,	B V Sc	Melb.	
Clarke, E de C ,	M.A	N Z	Lectr			Assoc	Lectr.
Milner, Dorothy,	B Sc.	Demr.					

AFFILIATED SCHOOLS

PERTH TECHNICAL SCHOOL, and SCHOOL OF MINES, KALGOORLIE

GENERAL INFORMATION (v also p. 398)

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 100 acres for buildings, and receives an annual grant of £17,000. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES Agric., Biol., Chem., Geol., Engin., Phys.

FACULTIES. Arts, Sc. (including Agric.), Engin.

DEGREE COURSES 3 yrs —B A, B Sc, 4 yrs —B A (Hons) and B Sc (Hons), 5 yrs —B E (a sandwich system during last 3 yrs) First year Med course in Fac of Sc

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges

HIGHER DEGREES. M.A., M Sc, M E, D.Litt, D.Sc

DIPLOMA. Agric and (Associateship) Engin.

PUBLIC EXAMINATIONS School Certifs (Juni and Leaving), Art Certif, and Music

ADULT MATRICULATION Persons who have attained the age of 25 yrs may be admitted without examn as matriculated students if the Faculty is satisfied that they possess sufficient educational qualifications

PUBLICATIONS *Calendar* (Dec), 2s 6d, *Public Examn Manuals*, *Black Swan* (Students' Magazine)

THE YEAR 1923

NEW BUILDINGS The W A Government gave a special grant of £16,500, to be supplemented by further monies, for erection of a building for the depts of Biology and Geology. The foundation stone of this, the first of the permanent buildings of the Univ, was laid on Sept 1, 1923, by the Premier, Sir James Mitchell, and the new premises will be ready for occupation in 1924

DEGREES GRANTED B A, 44, M A., 1, D Litt, 1, B Sc, 10, D Sc, 1, B Sc Agric, 3, Dipl Agric, 1, B E, 5

NUMBER OF STUDENTS Arts—Ordinary, 215 (including 137 women), post-grad, 7 (4 women) Science—84 (19 women), post-grad, 4 (2 women). Engineering—29, post-grad, 2 Special courses, 54

RETIREMENTS R C. Bald, Mdle. L D'Ery

UNIVERSITY OF NEW ZEALAND

VISITOR—H E THE GOVERNOR-GENERAL

CHANCELLOR—J MACMILLAN BROWN, M A , LL D Glas

VICE-CHANCELLOR—J RANKINE BROWN, M A St And. and Ox

CHAIRMAN, BOARD OF STUDIES—Prof H W SEGAR, M A Camb ,
Auckland

REGISTRAR—E T NORRIS, M A , Wellington

AGENT IN ENGLAND—J W JOYNT, M A Dub , 88 Gower Street,
London, W C 1

AFFILIATED INSTITUTIONS

UNIVERSITY OF OTAGO, DUNEDIN , CANTERBURY COLLEGE, CHRISTCHURCH ,
AUCKLAND UNIVERSITY COLLEGE , VICTORIA UNIV COLLEGE, WELLINGTON

This University, an examining body, was founded in 1870 Its constitution, defined by the N Z Univ Act 1908 as amended in 1912, 1914, and 1915, vests the Government of the Univ in a Senate of 24 members (Fellows), assisted, as regards schemes of study, etc , by a Board of Studies representing the College Professorial Boards. Of the Fellows, 4 are nominated by the Governor, and 20 elected, 8 by the College Governing Bodies, 4 by their teaching staffs, and 8 by graduates The Chancellor and Vice-Chancellor are elected by the Senate, the former (or, in his absence, the latter) presides at meetings of the Senate There are no University buildings the offices are at Wellington An annual grant of £4000 is received from Govt

MATRICULATION Candidates must pass in 5 subjects, including English, Maths , and one language A candidate who does not pass in Latin or Greek must pass in Physical or Natural or Home Science Not more than one of these sciences can be taken , in the syllabus prominence is given to their practical aspect The examn is held in Dec Special provision is made for exemption of persons not under 30 years of age and students from other Univs

TERMS A student presenting himself for a Univ examn for which the keeping of terms is required must have passed the College examn in the subjects he offers at the corresponding stage The terms are Autumn (March-May), Winter (June-Aug), and Spring (Sept-Oct or Nov) The subjects in which terms must be kept are all those of the B A , B Sc , B Sc in H Sc , M B , Ch B , B D S , and LL B degree courses , of the 1st and 2nd Divisions of the B Com course , of the Engineering Entrance examn A student whose name is on the books of an affiliated College, and who has passed its annual examn , is deemed to have kept the terms of the year if he has attended the prescribed courses, or, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, or objects on grounds of religious scruples to such attendance

DEGREE COURSES 3 yrs —B A , B Sc , B Mus , B Agr (including practical

work on farm), B Sc in Forestry ; 4 yrs—B Sc in Home Science, B Sc. in Archit (including 18 mos' practical work), LL B, B D.S., B E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B Vet Sc ; 6 yrs—M B., Ch B The B A. and B Sc courses are framed on a system of Pass and Advanced subjects Each now consists of (a) 4 Pass and 2 Advanced or (b) 5 Pass and 1 Advanced or (c) 6 Pass subjects. English Lang. and Lit., Latin, Greek, French, and German are separate subjects for honours

HIGHER DEGREES M A, M Sc, LL M, M Com, M S., Ph D, Litt D., D Sc., LL D, M D., D D S, D Mus For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs' (in Med. 3 yrs') standing who offers suitable original work and, if in Arts, Sc, or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn

DIPLOMAS. D P H (9 mos' course) ; Journalism, Education, Social Science, Banking. *Certificate* of Proficiency in Dental Surgery.

PROFESSIONAL AND TECHNICAL SCHOOLS *Law* at all the Affiliated Colls, the chief school being that of Victoria, *Med. and Dent* and *Home Science* at Otago ; *Archit* and *Engin* (Civ, Elec, and Mech) at Canterbury ; *Mining* and *Civ, Elec.*, and *Metall Engin.* at Auckland and Otago, *Commerce* and *Music* mainly at Auckland and Canterbury, *Agric* at a recognized (but not affiliated) Coll at Lincoln

"AD EUNDEM" RECOGNITION Courses completed, or partially completed, at any British chartered or other approved Univ are accepted *ad eundem*

SCHOLARSHIPS FOR GRADUATES In almost every subject of the B A or B.Sc. syllabus and in Law—£60 each, Travelling Scholps in Arts and French—£200 (2 yrs) each, in Engin and Med—£150 each A National Research Scholarship (£100) is offered annually for each of the 4 Colleges for research in Science or Economics. Gold medals are granted for scientific and humanistic research.

Two first-class return passages between Australia and England are offered yearly by the Orient Co and P. & O. Co for grads of the Univ. proceeding to Europe to continue their studies. The Union S S Co supplements this by a similar concession between N Z and Australia One passage between N Z and England is offered by the N Z Shipping Co and one by the Shaw, Savill & Albion Co

Of 4123 students on the books of affiliated colleges in 1921, 1656 were receiving *free education*

ADULT EDUCATION Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W E A are represented. The government granted £3700, of which £300 was allotted to each College for W.E.A. and extension classes.

PUBLICATIONS. *Calendar* (March), 2s 6d.; *Minutes of Prods of Senate*, free, *Examn Papers*, 6d or 1s a set, *Reports of Examrs* (in England and N Z) free ; Reports (Govt Press, Wellington) on Univ Colls, 1912, 9d, and on Univ. Reform (with evidence), 1913, 2s. 3d

THE YEAR 1923

BENEFACTIONS. N Z. Farmers' Union, £160, applied to establishment of a prize in Agric.

CHANGES IN REGULATIONS, ETC. Following on the adoption in 1922 of the system of employing for B A and B Sc pass subjects external examiners appointed in N.Z. and Australia, Australian examiners were appointed for the LL.B. subjects. The Senate was empowered to confer a Ph.D. Degree, and the M.D S. was abolished in favour of a D D S

DEGREES CONFERRED. B.A.—131; B.Sc.—45; LL B.—51; M B., Ch B.—65, B Com.—6; B.E.—8; B.Sc Home Sc—5; B.Agr—6, M.A., M Sc., and LL M—92; M D.—1; Mus B.—0; D.Sc.—1, D.Litt.—1; Ch M—1; B.D S—8

UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H E THE GOVERNOR-GENERAL

CHANCELLOR—ANDREW CAMERON, B A , LL D

VICE-CHANCELLOR—T K SIDEY, B A , LL B , M P

REGISTRAR—H CHAPMAN, B A

PROFESSORS, LECTURERS, ETC., November 1923

<i>Accountancy</i>		<i>Education</i> [Prof]	
Reid, G W , B Com	Lectr	Lawson, R , M A , Litt D	Melb
2 Tutors		<i>Engineering, v Mining</i>	
<i>Accountancy Law</i> [Lectr]		<i>English Lang and Lit.</i>	
Paterson, J M , M A , LL B		Ramsay, H , M A St And	Prof
<i>Anatomy</i>		Clement, Bertha, M A	Asst
Gowland, W P , M D , B S Lond ,		<i>Ethnology</i>	
F R C S Eng	Prof	Skinner, H D , Dip Anth Camb ,	
Cairney, J , M B , Ch B	Lectr	B A	Lectr
<i>Biology</i>		<i>Geology and Mineralogy</i>	
Benham, W B , M A Ox , D Sc.		Benson, W N , B A Camb , D Sc.	
Lond , F R S	Prof	Syd , F G S	Prof.
Fyfe, Marion L , B Sc	Asst	<i>Hebrew</i>	
<i>Botany</i>		Cumming, J , M A Edin , B D	
	Lectr	Lond , D D Melb	Lectr
<i>Chemistry</i>		<i>History</i>	
Inglis, J K H , M A , B Sc ,		Elder, J R , M A , D Litt	Aberd
D Sc Edin , F I C	Prof		Prof
Carter, C L , M Sc , A I C	Lectr	<i>History, Constitutional</i>	
<i>Classics</i>		Lang, J , M A , LL B	Lectr
Adams, T D , M A	Prof	<i>Home Science</i>	
Turnbull, Mary I , M A	Asst	Strong, Ann G , B Sc	
<i>Dentistry</i>		Prof (Domestic Arts)	
Pickerrill, H P , C B E , M D ,		Gloy, Olga H M	Asst
M.D S , L D S Eng	Prof	Little, Dora	Teacher
Bell, R C , B D S Prof (Cln D)		<i>Law</i> [Lectr]	
Siedeberg, Emily H , B Sc , M D ,		Stephens, A C , LL B (Contracts)	
Ch B (Anæsthetics)	Lectr	Neill, A G (Crim Law)	Lectr.
<i>Domestic Arts</i>		Adams, H S , M A , LL B.	
Strong, Ann G , B.Sc.	Prof	(Evidence)	Lectr.
<i>Economics</i> [Prof]		Hay, W G , LL M (Jurispr)	
Woodthorpe, R A , M A. Syd			Lectr
		Cook, H L , LL B (Property)	Lectr

Adams, F B, B.A., LL M
(Property) Lectr

Barrowclough, H E, LL B
(Proc) Lectr

Callan, J B, B A, LL B (Torts)
Lectr

Mathematics, Pure and Applied
Bell, R J T, M A, D Sc Glas
Prof

Metallurgy and Assaying
Waters, D B, A O S M Prof

Mining
Park, J, M A I M E, M I M M,
F G S Prof

Modern Languages
Thompson, G E, M A Prof
Barron, Vida M, M A Asst

Philosophy, Ment and Moral
Dunlop, F W, Ph D Jena, M A
Prof

Physics
Jack, R, M A, D Sc Glas, Ph D
Gott Prof,
Hinton, J W, M Sc Lectr
Blackie, Agnes R, M Sc Asst

Physiology
Malcolm, J, M D Edin Prof
Bell, Muriel E, M B, Ch B Asst
Whyte, Marion K B, M B, Ch B
Lectr. to Home Sc Students

*Medicine (for subjects of the first
2 yrs —Anat, etc, v supra)*

Anæsthetics [Tutor
Marshall, A McP, M B, Ch B

Bacteriology and Pub Health
Hercus, C E, D S O, O B E,
M D, B D S, D P H Prof
Cameron, Gladys C M, M Sc
Lectr

Clin Med and Clin Surg
The Hon Staff of the Dunedin
Hospl Lectrs

Clin Med and Therap
Fitchett, F W B, M D, C M
Edin Prof,
Moore, S A, B A, M D Lectr.

Murray, C. S, M B, Ch B
Asst. Lectr

Moody, A S, M B, Ch B
Asst Lectr

Dis of Children
Williams, E H, M B, Ch B,
M R C S Eng Lectr

Ear, Nose, and Throat
Hall, A J, M B, Ch B, M R C S
Eng, L R C P Lond Lectr.

Gynæcology
North, C, M B, Ch B, M R C S,
L R C P Lond
Tutor, Asst Lectr on
Cln G

Medicine, Practice of [Prof
Carmalt-Jones, D W, M A, D M
Ox, F R C P Lond
Tutor

Mental Diseases
M'Killop, A C, M B, Ch B
Edin Lectr

Midwifery and Gynæc.
Riley, F R, F R C S Eng,
L R C P Lond Lectr
Ritchie, R I, M B, Ch B,
M R C S Eng, L R C P
Lond Tutor

Ophthalmology
Ferguson, Sir H L, C M G,
M A, M D Dub, F R C S I,
L K Q C P I Prof

Asst Lectrs in Cln O .
Bathgate, Winifrede I, M B,
Ch B

Carswell, W E, M B, Ch B,
F R C S

Ross, K, M A, M B, C M, D P H
Cottrell, A J, M A, M Sc, M B,
Ch B

Pathology
Drennan, A M, M B, Ch B,
F R C P Edin Prof
Lynch, P P, M B, Ch B Asst.

Surgery

Barnett, L. E., C.M.G., M.B., C.M.
 Edin., F.R.C.S. Eng. Prof.
 Newlands, W., M.B., Ch.B. Edin.,
 F.R.C.S. Edin., M.A., B.Sc.
 Lectr. on Clin. S. and
 Asst. Lectr. on S.
 O'Neill, E. J., C.M.G., D.S.O.,
 M.B., Ch.B., M.R.C.S.,
 L.R.C.P. Lond.
 Lectr. on Clin. S.

Batchelor, F. S., F.R.C.S.
 Lectr. on Clin. S.
 Landon, E. H. L., M.B., Ch.B.
 Asst. Lectr. on Clin. S.
 White, J. R., M.B., F.R.C.S.
 Eng. Tutor
 Fergus, T., M.B., F.R.C.S. Edin.
 Tutor

Adult Education

11 Lecturers to W.E.A. Classes.
 Secy.—G. McCracken

GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives an annual government grant of £10,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

CLASS FEES. In separate subjects—in Arts generally, £3 10s for complete course; Science, £5 5s; Law from £1 4s to £3 10s, Commerce, £1 4s. to £4 4s.; Medicine, all subjects aggregate (5 years), about £163, exclusive of Univ. fees, £45. 3s., and Hosp. fees, Dentistry (4 years), £140, exclusive of Univ. fees, £24; Mining (4 years), £112, Home Science (4 years), £106.

LIBRARY, 16,000 vols.: also the Hocken collection of pamphlets and MSS bearing on the History of N.Z. **MUSEUMS**: Biol., Ethnog., Geol., Anat., Path. **LABORATORIES**: Phys., Chem., Physiol., Bact., Path.

FACULTIES Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science

COURSES for degrees in all the Faculties, D.P.H.; Certif. in Dent. Surg.; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs., Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs.; Associateship in Home Science, 4 or 3 yrs.

RESEARCH SCHOLARSHIPS, ETC. Edmond Industrial (Chemical) Research, £210, tenable 2 yrs., Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago Ross (Knox College), £150, 2 yrs., Sir R. Stout (Economics), £50, and Anna P. Stout (Economics and History—women); all open to graduates of Otago. **OTHER RESEARCH FUNDS** Roberts, Deans, and Barnett endowments, £1000 each for research in med. and surg.

HOSTELS. Presbyterian for men and women, Anglican for men; Home Science Students'. Cost of board and lodging, 21s. to 30s. a week.

UNIV EXTENSION Since 1916 classes in connexion with the W E.A. in Dunedin and Invercargill have met with very great success.

THE YEAR 1923

BENEFACTION. R. McCallum, Esq, £550 for research

NEW CHAIR OF EDUCATION.

NUMBER OF STUDENTS (1923) Preparing for first degree in Arts, 234, including 109 women, Science, 28 (women, 5), Law, 68 (women, 2); Com, 43 (women, 3), Med, 344 (w, 43), Dent, 97 (women, 13); Home Sc, 60; Mining, 15, graduate students, 53 (w, 13), occasional students, 131 (w, 23). *Degrees obtained* B A, 40 (w, 12), M A, 16 (w, 2), B Sc, 16 (w, 5); M Sc., 7, LL B, 3, M B, 66 (w, 10), M D, 1, B D S, 10 (w, 1), B Com, 1; B Agr, 1

UNIV EXTENSION (1922) 24 Tutorial Classes were held Average attendance, 402

RESIGNATIONS Profs W H. Pringle, G H. Rawson

CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—H D ACLAND, B A

RECTOR—PROF C CHILTON, M A , D Sc , etc

REGISTRAR—L A. STRINGER

PROFESSORS, LECTURERS, ETC., August 1923

- Accounting, etc*
Morrison, J , F I A N Z. Lectr
Smith, W A , A I A N Z. Asst Lectr
- Biology*
Chilton, C , M B , C M Edin , Hon LL D Aberd , M A , D Sc , F L S Prof
Herniott, Elz M , M A Asst Lectr
Murray, Flora B , M A Asst Lectr
- Chemistry*
Denham, H G , M A , M Sc , D Sc Liverpool, Ph D Heidelberg Prof
Packer, J , M Sc Asst Lectr.
- Classics* [Prof
Stewart, H , C M G , M A Camb Broadhead, H D , Litt D N Z , B A. Camb and N Z Asst Lectr
- Economics*
Condliffe, J. B , M A Prof
Tocker, A H , M A Asst Lectr
- Education, v also Philos*
Shelley, J , M A Camb (Dean Fac Soc Sc) Prof
Purchase, J E , M A Lectr
- Engineering*
Bamford, P G , B E. Demr.
Campbell, R A , B Sc (Eng) , A M I C E Prof. (Civ E).
Morrison, A F Lectr & Demr
- Powell, P H , M Sc Manc , M Eng Liv , M I E E Prof (Elec E) (Dean Fac Eng)
Robinson, W. F , F R G S (Surveying, etc.) Lectr
Steele, S , B Sc Eng Prof (Mech E)
Calvert, G G , A M I C E Demr (Civ E).
Fernday, E G , Demr (Mech E)
Pennington, J H , B E Demr (El E)
Pollard, T R Demr (El E)
Thomas, F G Demr (Mech E)
- English*
Wall, A , M A Lond , B A Camb (Dean Fac Arts) Prof
Cane, T W , M A Asst Lectr
- Forestry and Botany*
Foweraker, C E , M A Lectr.
- French and German*
Blunt, T G R , M A. Ox. Prof
White, J F D , B A , B Sc N Z (French) Asst Lectr
- Geology and Geography* [Prof
Speight, R , M A , M Sc , F G S
- History*
Hight, J , M A , Litt D (Dean Fac Law and Com) Prof
Candy, Alice, M.A Asst. Lectr.

Journalism

Henderson, A G, B A
Asst Lectr.

Law

Rowe, T W, M A, LL B. Lectr
Cuthbert, R A, B A, LL B
(Indust and Comm L)

Asst Lectr

Hanna, H H, LL B Asst Lectr
Taylor, A S, B A, LL M

Asst Lectr (Property, etc)

Gresson, K M

Asst Lectr (Property, etc)

Mathematics and Nat Philos

Weatherburn, C E, M A Camb
and Melb, D Sc Syd Prof

Darwin, L J., M A Adel
Asst. Lectr.

Music

Bradshaw, J C., Mus D Manc,
FR CO, L R A M, A R C M

Philosophy, Mental and Moral

Salmond, C F., M A. Prof
Beeby, C E, B A.

Asst in Educn and in P.

Physics

Farr, C C, D Sc Adel (Dean Fac.
Sc) Prof.

Macleod, D B, M A, D Sc Demr.

Zoology

Archey, G E, M A Asst

Adult Education

Of the Tutors for W E A Classes
4 are on staff of College

GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ of N Z, 1874. Present value of Govt endowments—£584,200, including £259,700 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs Annual Govt subsidies and grants (1922), £31,000, including £12,574 (College proper, £3886) for *Engineering*, the National School of Engin in N Z The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board LABORATORIES Biol, Chem, Engin, Phys

DEGREE COURSES in Arts, Science, Mus., Com., and Engin., and Certif. or Diploma courses in Engin (3 yrs), Com (2 yrs), Journalism, Education, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 4 gs, Laboratory Research, 6 gs, Law and Commerce subjects, 1 to 2 gs.

RESIDENCE Hostels for men (60) and women (30) students.

PUBLICATION. *Calendar* in March. Annual Statement of the Chairman in June *College Review*, 6 issues a year, 1s. each *Annual Report (Trans) of Coll. Engineering Soc*, 2s 6d

SCHOLARSHIPS include one of £50 for research in Science, open to graduates, renewable up to 3 yrs; one of £150 p.a. for 2 yrs plus £38 for travelling, tenable at Royal Holloway Coll, England, one of £150 in Engineering, open to B E, tenable outside N Z.

THE YEAR 1922-23 Jubilee celebrated May 13-15, 1923, history of college and register of graduates prepared *Benefactions* E W. Roper bequest for scholarships in Science, Em Prof. J Macmillan Brown, £250 to found prize in English *New Posts* 3 Profs of Engineering (Mech, Elec., Civ.) in place of one Director, Asst Lectr in Law. *Organization*. Faculty system introduced (Arts, Science, Law, and Commerce, Mental and Social Sciences, Engineering), Professorial Board to be represented on governing

body by rector and one other *Resignations* Profs W. P. Evans, J. P. Gabbatt, R. J. Scott, S. Page.

STUDENTS, 1923 Total, 934 (including women—233); matriculated, 580 (women—111). Tutorial classes in 1922 21 with 753 students, summer school (2 weeks), 100, winter school for teachers and farmers, 75 Degrees obtained (1923) M A, 17 (w—11), B.A, 31 (w.—7), M Sc, 1, B Sc, 7 (w—2), B Ag, 3; B E, 5, LL M, 1, LL B, 5, B Com, 3, Dipl Jrn., 2 (w.—1); Dipl Educ, 5 (w—4)

AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION

PRESIDENT OF COUNCIL—HON G FOWLDS, C B E

REGISTRAR—M R O'SHEA, B Com

PROFESSORS, LECTURERS, ETC, September 1923

<i>Accounting, etc</i>		<i>English</i>	
Seaman, A M	Lectr	Egerton, C W, M A Dub	Prof
		Arden, P S, B A Ox, M A	
<i>Architecture</i>			Asst Lectr
Cumming, W A	Lectr	<i>Geology</i>	[Lectr
Morran, H S, A R I B A	Lectr	Bartrum, J A, M Sc, A O S M	
<i>Biology</i>	[Prof	<i>History and Economics</i>	
Johnson, J C, M A, M Sc, M B,		Grossmann, J P, M A	Prof
B Ch N U I, Litt D, F Z S			
McGregor, W R	Lectr -Demr	<i>Law</i>	
<i>Botany</i>		Algie, R M, LL M	Prof
Lancaster, T L, B Sc	Asst. Lectr	Fotheringham, A, B A, LL B.	
<i>Chemistry</i>		Camb	Asst Lectr.
Worley, F P, D Sc Lond. M A,		Tuck, W R, M A, LL M	
M Sc, D I C, F C S	Prof		Asst Lectr.
Bowell, A H, F C S	Lectr -Demr	<i>Mathematics</i>	
Short, W F, M Sc Manc, A I C,		Segar, H. W, M A Camb.	Prof
F C S	Lectr -Demr	<i>Mental and Moral Philosophy</i>	
<i>Classics</i>		Anderson, W, M A Glas	Prof
	Prof	<i>Modern Languages</i>	
Syme, R	Asst Lectr	Walker, M., M A, B Com	Prof.
<i>Dental Anatomy</i>		<i>Music</i>	
Carter, A M	Lectr.	Thomas, W E, Mus D, Ox	Prof
<i>Education</i>		<i>Physics</i>	
Cousins, H G, M A	Lectr	Burbidge, P W, B A Camb,	
Fitt, A B, Ph D. Leip, M A		M Sc	Prof
	Asst Lectr	Salt, G McB., M Sc	Demr
<i>Engineering</i>		<i>University Extension</i>	
Lamb, S E, B Sc. Lond, A R C S		Of 10 Tutors assisting the Tutor-	
Eng, A M I M E (Applied		Organizer appointed by the	
Mechanics, etc)	Lectr	W E A (L A Mander, M A.	
W S Wright (Elec E, etc)		Adel), 3 are members of the	
	Lectr	College staff	
Gray, W S, B A, M A I Dub,			
A M I C E I (Civil E, etc)			
	Lectr		
McLaren, E. J. R.	Demr		

GENERAL INFORMATION

Established by Act of the N Z. Legislature in 1882, the College was affiliated to the Univ. of N Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B Sc. in Archit.), Law, Music, Commerce, and for the Associateship of the College in Commerce (2 yrs' course) and in Engineering (3 yrs').

LECTURE FEES. 12s 6d per term for each hour per week, for each of the first two terms.

PUBLICATION *Calendar* (Feb), 1s.

THE YEAR 1923 Foundation stone of Arts building and students' clubhouse was laid, May 23, 1923. In addition to £100,000, granted by Government for building, public subscriptions amounting to £15,000 were received. A Chair of Education was established. A social club was formed in connexion with the University Extension Classes. STUDENTS (1922): Total, 1045; graduates, 51 (including women—9), undergrads, 651 (w.—171); non-matriculated, 252 (w—67), exempted, 91 (w—10). DEGREES OBTAINED (1922): B A., 32 (women—15); M A., 13 (w—2); B Sc., 9, M Sc., 3; LL.B., 18; LL.M., 6; B Com., 2. Tutorial and other EXTENSION CLASSES, 13, with 430 students. Public Lectures, 8.

VICTORIA UNIVERSITY COLLEGE, WELLINGTON

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF COUNCIL—P LEVI, M A

REGISTRAR—G G. S. ROBISON, M A

PROFESSORS, LECTURERS, ETC., August 1923

Biology
Kirk, H B, M A Prof
Pigott, Ellen, M A Asst & Demr
Maskell, F G, B Sc

Asst & Demr

Chemistry
Robertson, P W, M A Ox
Ph D Leip., M Sc Prof
Monro, A D, M Sc

Asst & Demr

Classics
Brown, J R, M A Ox and St
And Prof
Alexander, W, M A, LL B Asst

Economics [Prof
Murphy, B E, M A, B Com,
LL B (E Hist & Geog)
Neale, E P, M A, LL B, B Com
Asst

Education
Tennant, J S, M A, B Sc. Prof

English Language & Lit [Prof
Mackenzie, H, M A St And.
Tomlinson, H B, M A Asst.

Geology
Cotton, C. A, D.Sc Prof.

History
Wilson, F. P., M A Prof.

Law, Roman, etc. [Prof
Adamson, J, M.A, LL B. Edin
Cornish, H H, M A, LL B. Asst.

Law, English and N Z. [Prof
Garrow, J M E, B A, LL B
Watson, G G G, M A, LL B

Asst
Taylor, C H, M A, LL B Asst
McKay, Georgina Asst.

Mathematics
Sommerville, D M Y, M A., D Sc
St And Prof
McLeod, D, M.A Glas, B Sc
Asst & Instr.

Modern Languages
Boyd-Wilson, E J, B A Camb,
M A, B Sc Prof
D'Ery, Mdlle Asst

Philosophy, Mental and Moral
Hunter, T. A, M A, M Sc Prof.
Myers, Iris H, M.A
Asst & Demr.

Physics [Prof
Florance, D C H, M A, M Sc.
Marwick, Thora, M Sc.
Asst & Demr

University Extension

Of the Tutors who conduct one-year classes under joint committee of W E.A and College, 3 are members of College staff Secy.—E P Neale, M A

GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906. Annual grants about £14,000.

Full Degree *Courses* are provided in Arts, Science, Law, and Com., and the earlier stages in other Faculties.

CLASS FEES range between 2 and 4 guineas per annum for each subject

RESEARCH SCHOLARSHIPS J Joseph, £60 for original work, Mrs S A Rhodes' Fellowship (£400) or Scholarship (£125-£250) for women students of Home Science, tenable for 2 years

PUBLICATIONS *Calendar* in March, Students' magazine published towards end of each term.

THE YEAR 1922-23

Donation by Hon Sir Walter Buchanan of £10,000 to found School of Agriculture Part-time chair of Education replaced by full-time chair Prof. Marsden (Physics) resigned on appointment as Asst Director of Education, succeeded by Prof Florance from Hong-Kong STUDENTS graduates, 46 (including women—17), undergrads, 606 (w—175), occasional, 76 (w—44), exempted from lectures, 108 (w—23) DEGREES OBTAINED B A, 29 (w—13), M A, 17 (w—8), B Sc, 13 (w—3), M Sc, 7, LL B, 20, LL.M, 5. TUTORIAL CLASSES in 1922 18, average attendance, 327

UNIVERSITIES OF THE UNION OF SOUTH AFRICA

UNIVERSITY OF SOUTH AFRICA, PRETORIA (formerly the Univ of the Cape of Good Hope), with 6 CONSTITUENT COLLEGES

UNIVERSITY OF STELLENBOSCH (formerly Victoria College, Stellenbosch)

UNIVERSITY OF CAPE TOWN (formerly South African College, Cape Town)

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG (formerly S African School of Mines and Technology, and, later, University College, Johannesburg)

HISTORICAL SUMMARY (for which the Bureau is indebted to Professor Ritchie of Cape Town) The history of higher education in S Africa covers but a comparatively short period of time It may be said to have had its beginnings when, in 1829, the S African College (now incorporated in the Univ of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds For 20 years it remained the only educational establishment in S Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony None of these Colleges were well equipped, and most of the work done by them was school work rather than Univ work, but they gradually acquired a growing influence and formed centres at which development was only a question of time A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but

it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B A., and M A. The competition between the existing Colleges caused by these exams had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its exams, but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its exams. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year was founded at Johannesburg an Institute, designed in the first instance for instruction in mining but afterwards developed into a College for higher education generally, and now The University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve

the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs, one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect:

I The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is to be upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch are defined as—Arts, Science, Education, Agric., Law, Music, of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education, of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit, provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. A schedule is appended to the Act stating that professional exams will be conducted in Law and Jurisprudence, in Civil Service Law, and in the Theory of Land Surveying.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as "The University of the Witwatersrand, Johannesburg" the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce.

Each of the four Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council, the Senates of the Univs. of Stellenbosch, the Witwatersrand, and Cape Town consist in each case of the Principal, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period,

and the Professors and Lecturers who are heads of their respective departments.

CONFERENCE The Vice-Chancellors of the Univs acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn Board, the Joint Committee for Professional Examns, the administration of the Joint Scholarship Funds of the four Univs, the admission of registered students of any one of the Univs to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The **JOINT MATRICULATION BOARD** (Address of Secretary—P O Box 392, Pretoria) consists of representatives of the four Univs, the Provincial and Union Departments of Education and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn Examn of the four Univs, and to deal with all applications for exemption therefrom. There are two alternative sets of regulations—the interim and the new. Under interim regulations a candidate must take (1) English or Dutch, (2) Latin or French or German, (3) Maths, (4) Greek or Hist, (5) Physics or Chem or Phys Sci or Bot or Zool, (6) Engl or Dutch or French or Ger or Gk or Hist or Portuguese or Hebrew or Native lang. Under the new regns subjects are grouped thus (1) English, Dutch, (2) Maths, (3) Latin, Greek, French, German, (4) Physics, Chem, Bot, Zool, Geol, (5) Hist, Geog, English, Dutch, Hebrew, addl subject from 3 or 4, (6) Agric Sc, Practical Maths, Mechanics, Bookkeeping and Comml Arith, Shorthand and Type-writing, Drawing, Geom Drawing, Domestic Sc, Music, addl lang., addl subject from 5. Under the new regns, if 6 subjects are taken, 1 must be selected from each group, if only 5 subjects are taken, 3 must be on the higher grade, 1 of which must be the subject from group (1), 1 a subject from group (2) or (3), and 1 from any other except (6). The 5 subjects must be selected from the groups 1 to 5 (inclusive) in such a way that not more than one of these groups is omitted. A **JOINT COMMITTEE FOR PROFESSIONAL EXAMNS** (Address of Secretary—P O. Box 392, Pretoria) consisting of 2 representatives of each of the 4 Univs (one for Law and one for Survey) and 5 persons appointed by the Govr-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts (1) Law Certificate Examn, (2) Civil Service (Lower and Higher) Law Examns, (3) Examns. in Theory of Land Surveying, and (4) Final Examn for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn in Roman-Dutch Law and the Statute Law of the Union.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb or March and ending Nov or Dec.

UNIVERSITY OF CAPE TOWN

WITH WHICH IS INCORPORATED THE

SOUTH AFRICAN COLLEGE

VISITOR—THE GOVERNOR-GENERAL

CHANCELLOR—THE PRINCE OF WALES

VICE-CHANCELLOR—Principal Sir CARRUTHERS BEATTIE, D Sc ,
F R S E

PRESIDENT OF CONVOCATION—Advocate R W CLOSE, K C , B A.,
LL B , M L A

CHAIRMAN OF COUNCIL—J M. RUSSELL, M A , B D

REGISTRAR—W G R MURRAY, M A

PROFESSORS, LECTURERS, ETC., November 15, 1923

Accounting and Business Method
Galbraith, H G , B A Camb ,
C A Edin Lectr

African Life and Languages
Norton, W A , M A , B Litt Ox
Prof of Bantu Philology
Brown, A Radcliffe, M A Camb
Prof of Soc Anthropol
Beach, D M , B A Harv , Ph D
Lond Sr Lectr in Phonetics

Afrikaans, v Nederlands

Anatomy
Drennan, M R , M A , M B , Ch B
Edin Prof
Wolff, R , B Sc Cape, M R C S ,
L R C P , I D S Sr Lectr
Gordon, W L , O B E , M D ,
F R C S Edin Lectr
Du Toit, Miss I , B A Cape, M B ,
Ch B Edin Asst

Art [Reader in Æsthetics
Kolbe, Mgr F C , D D

Bacteriology
Campbell, W., M B , B Sc (P H)
Edin Prof
Hofmeyr, H O , M B , Ch B
Edin , D T.M Lond Asst

Mulligan, W P , M B , Ch B
Aberd , D P H Camb
Asst to Prof
Bio-Chemistry [Prof
Edie, E S , M A , D Sc Edin

Botany
Compton, R H , M A Camb
Prof and Dir of National
Bot Gardens
Adamson, R S , M A . B Sc Edin ,
M A Camb Bolus Prof
Stephens, Miss E L , B A , F L S
Sr Lectr
Levyms, Mrs J E P , B A Lectr
Bolus, Mrs F , B A
Curator of Bolus Herbarium
Tredgold, Miss E K , B A Demr

Chemistry
Tietz, H , M A Cape, Ph D Berl
(Organic) Prof
Thomas, J Smeath, D Sc Liv
Prof (Inorganic C)
Newbery, E , D Sc Manc , F I C
(Physical) Prof
Pugh, W , B Sc Lond Lectr
Barker, W. F , B.Sc., Ph D Liv.
Lectr.

Classics

Ritchie, W, M A Aberd, M A Ox.
 Prof (Latin and Class
 Philol).

le Roux, T, M A, Litt D Amst
 Prof (Gk)

Watson, C F K, B A Camb
 Sr Lectr

Farrington, B, M A N U I " "

Commerce

Plant, Arnold, B Com Lond. [Prof

Economics

Leslie, R, M A Edin, Dean of
 Fac of Commerce Prof

de Kock, M H, B A Cape, M A,
 Ph D Harv Sr Lectr

Education

Clarke, F, M A Ox Prof

Scrimgeour, A C. S, M A Edin
 (Method) Prof

Jordaan, J J, B A Cape Lectr

Jamieson, J N, M A St And.

.. Sr Lectr
 Lectr

Electrotechnics

Bohle, H, M V D E, M I E E. [Prof

Rogers, A H E, A C G I Lond
 Sr Lectr

Engineering, Civil

Snape, A E, M Sc Manc,
 A M I C E, F R San I Prof

Stewart, G S, A M I C E
 Sr Lectr

Engineering, Mechanical

McMillan, D, A R T C, A M I M E. [Prof

Weaver, W G, A M I M E
 Sr Lectr

Brooks, J J, A R C S. Lectr

..... Demr

English

Clark, J, M A, LL D St. And [Prof (E Lit)

Mackie, W S, M A Aberd,
 B A Ox Prof (E Lang)

Greenlees, Miss M, B A Lectr

Ethics and Politics

Malan, G. H, M A Cape, D Phil
 Glas. Prof

French

Nauta, R. D., O.A. Prof.

*Geology, v. Mineralogy**German*

Boyd, I, B A Ox Prof.

Prinz, J, Ph D Munich Lectr

Hebrew

Bender, A P, M A Camb Prof

History

Walker, E A, M A Ox Prof.

Mandelbrote, H, M A., B A Ox

Sr Lectr

[Prof.

Wille, G, B A, LL B Camb

Wythe, J K, M A, LL B., D Litt.

Edin, LL B Lond

Prof (Rom. L.).

De Villiers, J F, B A, B C L

Ox, B A Cape Lectr.

Howes, R B, M A, LL D Dub,

LL B Lectr.

Reid, F, B A Ox Lectr

Thompson, C N, M A Cape,

LL B Camb Lectr

Mathematics, Pure

Crawford, L, M A Camb, D Sc

Glas Prof

..... Sr Lectr

Mathematics, Applied

Brown, A, M A Camb, M A,

B Sc Edin Prof

v d Lingen, J S, B A Sr Lectr.

Mineralogy and Geology

Young, A, M A, D Sc Edin Prof

Walker, A. R E, B Sc Lond,

A R C S Lond Sr Lectr

Music

Bell, W. H, F R A M Prof

Hely-Hutchinson, C V N Hope

Lectr

Nederlands en Afrikaans

du Toit, P J, M A Cape, Ph D

Ghent Prof (Lang)

Botha, M C, M A Prof (Lit).

van der Merwe, I W, M A

Lectr

Philosophy, v also Ethics [Prof.

Reyburn, H., M A., D Phil. Glas.

Fales, W C, B.A Cape Sr Lectr.

Physics

Ogg, A., M A , B Sc. Aber., Ph D
 Gott Prof
 Schonland, B F J , O B.E. , B A
 Camb and Cape Sr Lectr
 Grindley, E W , M Sc Bristol
 Lectr

Physiology

Jolly, W. A , M B , Ch.B , D Sc
 Edin Prof
 Mirvish, L , M A , M B , Ch B
 Sr Lectr.
 Bosman, L P , B A Cape Lectr

*Politics, v Ethics**Zoology*

[Prof.
 Gilchrist, J D F , M A , D Sc
 Edin , Ph D Zur , F L S
 von Bonde, C , M A Lectr
 Swart, D B , M A. Demr

Medicine (for subjects of the first 2 yrs —Anat , etc , v *supra*)*Anæsthetics*

Forbes, A Gordon, M B , Ch B
 Edin Clin Teacher
 Danell, G W. Bampfylde,
 M R C S Lectr
 Muir, R M , M B , Ch B Edin
 Chn Teacher

Dermatology

Smith, Hugh, M D Lond Lectr

Ear, Nose, and Throat

Luckhoff, J , M D Edin Lectr

Med Jurisprudence

[Lectr
 Engelbach, H A , M B Dub

Medicine

Falconer, A W , C B E , M D
 Aber , M R C P Prof

Medicine, Clinical

[Lectr
 Marais, D P , M D , F R C S

Gie, J. C , M B Lond , M R C S.
 Eng Tutor.

Mental Diseases

[Lectr
 Swift, E W D , M B Lond.

Obstetrics and Gynæcology

Crichton, E C , B A , M B.,
 B A O , B Ch Dub Prof.

Obstetrics, Clinical

Simpson Wells, A , M D. Glas ,
 F R C S E Lectr.

Ophthalmology

Wood, D J , M B Edin Lectr

Pathology

Bartlett, G B , B A , M B Camb ,
 M R C S Prof
 Fuller, T. A , M B , Ch B Edin
 Asst to Prof

Pharmacology

[Prof
 Gunn, J W C , M B , Ch B Edin
 Morrison, Miss D , B A Cape,
 M B , Ch B Edin
 Asst to Prof
 Ferguson, J H , B A Lectr.

Public Health

Higgin, T S , M D
 Lectr (from 1924)

Surgery

Saint, C F M , C B E , M D , M S
 Durh , F R C S Prof

Surgery, Clinical

[Lectr
 Elliott, C C , M D , M R C S
 Fuller, E B , M B , F R C S E
 Lectr

Moffat, H A , F R C S Lectr
 Sandes, T L , M B , B Ch Dub
 Chn Tutor

Vaccination

Molteno, V G , M B Camb
 Lectr.

Venereal Diseases

Fraser, A. R , M D Lectr.

GENERAL INFORMATION (v. also p. 441)

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000

and a donation of equal amount from Mr Otto Beit, who added £50,000 to a lapsed bequest by Mr Alfred Beit. The S African College, out of which the University grew, opened in 1829 as a private venture, became a public institution in 1837. In 1895 classes were opened in mining engineering. In 1900 the matriculation classes were transferred to the College school and the College confined itself to University teaching. In 1902 £40,000 was collected from past students and others, and courses for medical students and civil, mechanical, and electrical engineers were begun. Provision was made in 1910 for post-graduate courses for the training of teachers, in 1917 for the third year of medical study, and in 1918 for a complete medical course. In 1921 Schools of Commerce and of Music were established. Early in 1921 a special appeal for funds was concluded, the amount obtained was about £280,000, including a sum of £50,000 for the Jameson Memorial Hall.

A site for the University has been provided by Government at Groote Schuur, a suburb of Cape Town. Pending the erection of buildings there, those formerly occupied by the Univ. of the Cape of Good Hope have been rented.

LIBRARY, 12,000 vols. Access to S A Public Library, 100,000 vols, specially well equipped in Bot and Zool Depts. Also Bolus Bot Library and (for students of Teaching) the Library of the Educn Dept. The Bolus **HERBARIUM** includes Guthrie Collection of Cape Flora. The S A **MUSEUM** of Nat Science adjoins the Univ grounds. **MARINE BIOL LABORATORY** at St James'.

FACULTIES Arts, Commerce, Science, Engineering, Law, Medicine, Education, and Music.

DEGREE COURSES B A, 3 yrs, B Sc (in Pure Sc), 3 yrs, B Com, 3 yrs, LL B, 4 yrs, B Sc (in Applied Sc), 4 yrs, B Mus, 4 yrs, M B, Ch B, 6 yrs, M A, 1 yr, M Sc, 1 yr. The M A and M Sc courses are open to graduates of any approved Univ, so also are courses for the Ph D (open to bachelors of at least 3 yrs' standing), and D Litt, D Sc (open to bachelors of at least 4 yrs' standing), for which attendance for 2 yrs may be required. The LL M is open to LL B after 2 yrs' attendance, the LL D is open to LL B or LL M.

OTHER COURSES For Teachers' Certificate—Secondary Higher, Secondary Lower, Primary Higher, Univ Diploma in Commerce, Law Certif, Land Surveying, Civil Service Law examn, Dentistry (preliminary subjects), and for students of Agric and Theol proposing to graduate in those subjects elsewhere.

RECOGNITION OF AND BY OTHER INSTITUTIONS Attendance in Stellenbosch and the constituent Colls of the Univ of S Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool are accepted by Aberd, Bris, Durh, Edin, Glas, Liv, Manc, Dub, R C P Lond, R C S Eng; so also are examns in the Faculty of Arts on the special courses in these subjects (except by Dub). Attendance on courses in Anat and Physiol is accepted by Aberd, Durh, Edin, and Glas, R C P Lond, and R C S Eng, examns in the Faculty of Arts in these subjects are accepted by Aberd (v also pp 257 and 288). The Dentistry course is recognized by the R C S Eng, R C P S Edin, and Edin Dental School, the Hygiene course by the Conjoint Boards of Eng, Ire, Edin, and Glas.

FEES For tuition, including registration, excluding laboratory fees, annually: Arts or Sc, from £23 to £31, Engin, £31 to £35; Med, £38 (average), Law (LL B), £23 to £29, Law Certif, £11; Teaching, £11 to £15; Surv, £23 to £27; Commerce (B. Com), £23. Examn. and graduation fees,

minimum B A or B Sc or B Com, £11, B Sc Engin, £20, LL B, £30, M B, Ch B, £30 Master's degree, £6, Doctor's, £13

SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, H B Webb, and several others, of £150 and £200 p a, tenable generally for 3 yrs, and awarded from time to time after the M A examns £150 p a for 2 yrs, awarded annually after the B Sc (Engin) examn

Travelling concessions to students are granted by the Union-Castle S S Coy and (except to law students and married persons) by the Union Railways.

RESIDENCE Hostels for 180 men and 80 women Board and residence, £60 p a

PUBLICATIONS *Calendar* (Dec), Students' Repve Council's *University Quarterly*, *Annals of the Bolus Herbarium*

THE YEAR 1923

BENEFACTIONS Cavanagh bequest, £2000, Hajee Sullaiman Shah-mahomed, £1000

NEW DEPARTMENTS AND POSTS From July 1, 1923, S A College of Music was taken over as an integral part of the Univ, which has now established courses for teachers' diplomas in Music, in addition to the existing course for the B Mus

NEW BUILDINGS Good progress was made in levelling and laying out the site for the residences, playing fields, and buildings for Arts, Science, Engineering, etc At another site the building of the new medical block was commenced

DEGREES (1922) B A, 68, B Sc (Pure Science), 1, B Sc in Engin, 14, LI B, 6, M A, 17, Ph D, 1, D Sc, 1, D Litt (*honoris causa*), 1, LL D (*honoris causa*), 1

NUMBER OF STUDENTS (1922) Undergraduates preparing for B A—349, B Sc in Engineering 77, LL B 27, M B, Ch B 202, Dental 23, Land Survey 4, Sec Teachers' Lower Cert 41, Primary Teachers' Higher Cert 34, Pharmaceutical 18, Law Cert 39, B Com 12, Diploma in Commerce 44, Graduates preparing for M A and M Sc 31, other Higher degrees 3, Sec Teachers' Higher Cert 33, D P H 1 Occasional 27 Total 965 Total enrolment, 1026 Graduates who went overseas in 1922 for further study, 8

SPECIAL COURSES OF LECTURES (i) for School Teachers (in Long Vacation), (ii) African Life and Languages (in Long Vacation), (iii) for Pharmaceutical students by Prof Gunn, (iv) on Irrigation and Water Supply, by F E Kanthack, M I C E, (v) Aesthetics, by Mgr Kolbe, (vi) the Motor Car, by Prof McMillan, University Extension Lectures given by members of the Staff

RESIGNATIONS (1923) H G Denham (from Feb 28) to be Prof, Canterbury College, New Zealand, T J Mackie (from Aug 31) to be Prof at Univ of Edinburgh, J Anderson, H H Broodrijsk, C G Cassidy, W. S Logeman

DEATH (1923) T P Kent, Prof of Pure Math

UNIVERSITY OF SOUTH AFRICA

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa with administrative seat at Pretoria, v p 443)

CHANCELLOR—Field-Marshal H R H. THE DUKE OF CONNAUGHT AND STRATHEARN, K G , K T , K P

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—J E ADAMSON, M A , D Litt

CHAIRMAN OF SENATE—Professor J W BEWS, M A , D Sc

REGISTRAR—C C GRANT, M B E , M A (P O Box 392, Pretoria)

PRESIDENT OF CONVOCATION—Professor Sir GEORGE E CORY, M A , D Litt

CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855)

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874)

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909)

RHODES UNIVERSITY COLLEGE, Grahamstown (1855)

POTCHEFSTROOM UNIVERSITY COLLEGE, Potchefstroom (1922)

TRANSVAAL UNIVERSITY COLLEGE, Pretoria (1903)

FACULTIES Arts (including Divinity, Music, and Education), Science, Engineering, Agriculture, Law, Commerce, Veterinary Science

DEGREES B A , M A , M.Ed , D Litt , D Phil. , B D , D D , B Mus , M Mus , D Mus , B.Com , M Com ; B Econ , M Econ , B Sc , M Sc , D Sc , B , M , and D Sc in Engin , B , M , and D Sc in Agric , LL B , LL M , LL D , B V Sc , D V Sc

Courses for B A , B Com , B Econ , B Sc —3 yrs , for B Mus , B Sc. Engin , B Sc Agric —4 yrs , for B V Sc —5 yrs , for LL B —3 yrs , after graduating in some faculty other than Law *Internal* candidates for these degrees must have attended as registered matriculated students at a constituent Coll for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs and may accept attendance and examns at other recognized Univs But the minimum attendance on approved courses at the Univ of SA for the Bachelor's degree in Applied Science is the final 2 yrs , and for other Bachelor's degrees one-half of the courses prescribed *External* students must have their curricula approved by the Senate and must pass the examns prescribed for them from year to year by the Senate in order to qualify for degrees.

Higher Degrees. The M A., M.Sc., M Com., M Econ., and M Sc (Agric) courses each cover 1 yr., the M Ed 2 yrs. The M Sc (Engin) may be conferred on a B Sc (Engin) who has had, since graduating, 2 yrs' practice of his profession. A thesis is required for the M Sc (Agric) or M Sc (Engin). Doctorates are granted for approved theses to bachelors of at least 5 yrs' or masters of at least 4 yrs' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The master's and doctor's degree may also be conferred *honoris causa*.

Research (Bachelor) Degrees. On proof of special qualifications in any direction a person may be exempted from the matric examn and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty subject to approval of Senate.

Diplomas in Domestic Science and Education (Lower) open to matriculated students—3 yrs' course, in Education (Higher)—1 yr course after graduation, (as a temporary measure) in Commerce and Public Admn—non-matriculated students who fulfil examn requirements for B Com or B Econ.

SCHOLARSHIPS FOR GRADUATES. 2 or 3 of £150 to £200 p.a. for 3 yrs awarded annually on results of M A and M Sc examns, Webb research S, £200, open to M A or M Sc of not more than 2 yrs' standing, undertaking approved course of research work, renewable up to 3 yrs.

SCHOOL AND MUSIC EXAMNS. The Univ controls and conducts a *Junior Certificate* examn of standard 2 yrs below matricn, and examns for Music Certifs and Licentiate Diplomas (for Teachers of Music and Solo Performers). The examiners in the practical music examns are nominated by the Assoc Board of R A M and R C M, London.

THE YEAR 1922. *Number of Students*, internal, 985, external, 289. Qualified for degrees: B A, 98 (including 46 women), M A, 10 (2 women); B D, 2, B Sc, 59 (22 women), M Sc, 9, LL.B., 22 (1 woman), B Sc Eng, 2, B Sc Agr, 6, B Com, 4, B Econ, 4. *Junior Certif candidates*, 5427, Music, theory, 3921, practical, 3466.

GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—J S M RABIE, B A Cape

RECTOR—Rt Rev J D KESTELL

REGISTRAR—R B SAAYMAN, B A

PROFESSORS, LECTURERS, ETC., November 22, 1923

Afrikaans and German
Malherbe, D F, B A Cape, Ph D
Frei Prof

Botany
Potts, G, B Sc Durh, Ph D
Halle Prof
Gemmell, Miss D M Demr

Chemistry
Rindl, M, D Ing Charl Prof
Zweerts, F, Ingr Delft Lectr

Classics
Ross, J A, M A Cape (Greek)
Lectr
Conlin, W, M A Dub (Latin)
Prof

Dutch and French
Francken, A, B A Cape Prof

English
Johnson, W S, M A, R U I Prof

Geology
Von Bonde, W, M A, D Sc Cape
Town Lectr

History (S African)
The Rector Prof

History and Economics [Lectr
Barnard, S P, Litt Docts Leyd

Law
Streeten, R C, B A Ox, LL B
Cape Lectr
Hæxter, O, B A, LL B Cape
Lectr

Mathematics (Pure and Applied)
Arndt, W F C, B A Cape, Ph D
Gott Prof

Pedagogy
Eybers, E, M A Edin, D Ed
New York Prof

Philosophy
Forsyth, T M, M A, D Phil
Edin Prof

Physics
Logeman, W H, M A Cape Prof
Marquard, D, B Sc Demr

Zoology
Dreyer, T F, B A Cape, Ph D
Halle Prof
Meiring, A D, B Sc Demr

GENERAL INFORMATION (v. also pp. 441, 450)

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' 1st class Certif. of the Union, and prelim training for Med, Engin, Agric, and Comm.

HOSTELS for men and women within the Coll. grounds. BOARD AND RESIDENCE: £15 per quarter. TUITION FEES £5 per quarter (Law, £2. 10s.).

SCHOLARSHIPS, open to residents of O F S for study abroad, 4 or 5 of £150 p a for 3 yrs. , of these 3 are for Agric. study.

UNIV EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres

THE YEAR 1923

BENEFACTIONS Jagersfontein Diamond Mining Co, £1000, J H Cloete, £500, Dr de Wet, bursary, 3 yrs, £75, J V Barnevelt, £50, M Badenbert, £40, Vroue Vereniging, bursaries, £30, Grants by Bloemfontein Corp'n (£750) and other municipalities NEW BUILDINGS Additional men's hostel, addition to women's hostel, addl accommodation for Zool and Geol. depts RESIGNATION N Mudd STUDENTS preparing for B A 83, B Sc 67, Teachers' Certifs 71, Law Certifs or Degree 8, Master's Degree 3, total 253, including 76 women Degrees obtained B A 11 (women—3), B Sc 9 (w —2), LL B 2

RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

CHAIRMAN OF COUNCIL—THE BISHOP OF GRAHAMSTOWN

CHAIRMAN OF SENATE—Professor BOWLES

REGISTRAR—Lieut -Col H GREENER, D S O

PROFESSORS, LECTURERS, ETC., November 1, 1923

<i>Accounting, Business Management, etc</i>	Martinius, Miss M, B A Cape Lectr
Williamson, J W M, C A Lectr	Nielson, A, M A Edin
<i>Anatomy</i> [Lectr	Head of Practising School
Drury, E G D, B S Lond,	3 Instrs
D P H Durh, M D Cape	<i>English</i>
<i>Botany</i>	Kidd, A S, M A Camb, Manc, and Cape Prof
Schonland, S, Ph D Kiel, Hon M A Ox Prof	McWilham, Miss J F Lectr.
Britten, Miss L, B A Cape Lectr	<i>French</i>
<i>Chemistry and Metallurgy</i>	Bodmer, H S Prof
Cory, Sir G E, M A Camb, Durh and Cape, Litt D Camb Prof	<i>Geology</i>
Page, R A, M A Cape Lectr	Schwarz, E H L, A R C S Lond, F G S Prof
Smith, J L B, B A Cape, M Sc Stell, Ph D Lectr	<i>German and Dutch</i>
<i>Classics</i>	Weehuizen, P B, M O Hol Lectr.
Bowles, C W, M A. Camb and Cape (Greek) Prof	<i>History</i>
Smail, W M, M A Ox and Edin, B A Lond (Latin) Prof	Rousseau, I J, B A Ox Prof.
Whiteley, S, M A Ox Lectr	<i>Law</i>
<i>Commerce</i>	McKerron, G G, M A, LL B Edin and Cape Lectr
Williamson, J W M, C A Lectr	<i>Mathematics, Pure and Applied</i>
<i>Drawing and Graphics</i>	Williams, D, B Sc Lond and Cape Prof
Armstrong, F W, A R C A (Principal, School of Art) Instr	Martin, J, M A Camb and Cape Lectr
<i>Dutch</i>	Finlay, W. H, M A Camb Lectr
Dingemans, G F, M A Edin and Cape Prof	<i>Philosophy</i>
<i>Economics</i> [Lectr	Lord, A R, M A Ox Prof
Hall, R L, B A Ox and Cape	<i>Physics</i>
<i>Education</i> [Lectr 1/c Dept	Varder, R W, M A Cape Prof
Earle, F M, B A, M Ed	Watson, S W, B A Camb. and Cape Lectr
	<i>Zoology</i> [Prof
	Duerden, J E, M Sc Cape, Ph D J Hopk, A R C S Lond

GENERAL INFORMATION (v. also pp. 441, 450)

In 1902 a movement was started for the institution of university education in the Eastern Province, and in 1904 the Rhodes Trustees established for the purpose an endowment of £50,000, which, together with a donation of £5000 from the De Beer's Company and local subscriptions amounting to £10,000, was applied to the development of St Andrew's College (founded 1855). The College Department (opened in 1878) was separated from its school, and incorporated as Rhodes Univ Coll in 1904. In 1906 it received £25,000 under the will of Alfred Beit.

LIBRARY, 12,000 vols **LABORATORIES** Applied Maths., Bot, Chem, Geog, Geol, Phys, Zool

COURSES. B.A., B.Sc., M.A., M.Sc., LL.B., Law Certif, Surveying, Teachers' 1st Class and Lower Secondary Certifs, 1st yr Medical, 1st B.Sc. in Agric, 1st Mining, 1st Engin, 1st and 2nd B.Com. **FEE** for full degree course, £21 p.a.

COLLEGE SCHOLARSHIPS open to graduates two of £40, one of £50

HOSTELS for 120 men ("College" and "Botha" Houses) and 100 women ("Oriel" and "Jameson" Houses), with dining halls, etc. **BOARD AND RESIDENCE**, £60 p.a. inclusive.

PUBLICATIONS *Calendar* (Nov), *The Rhodesian* twice a year

THE YEAR 1922-23

BENEFACCTIONS Rhodes Trustees, £5000, Municipalities and Divisional Councils, £1600, Individual donations, £57

NEW POSTS Lecturers in Chemistry and Classics, Head of practising school (Dalton plan)

NUMBER OF STUDENTS (1923) In B.A. and B.Sc. classes, 160, B.Com., 3, LL.B., 2, Med., 2, Dent., 4; Survey, 7, Engin., 2, Law Certif., 6, Educn., 35, Vet.Sc., 1, M.A. and M.Sc., 7.

DEGREES, ETC., OBTAINED M.A. and M.Sc., 2, B.A. and B.Sc., 42. LL.B., 3, Teachers' Diplomas, 8, Survey, 8

NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, NATAL

CHAIRMAN OF COUNCIL—The Hon Sir JOHN C DOVE WILSON.

CHAIRMAN OF SENATE—Prof BEWS

REGISTRAR—D ROBB, P O Box 375, Maritzburg

PROFESSORS AND LECTURERS, October 1, 1923

<i>Auditing</i>		
Atkinson, A , B Sc Durh	Lectr	
<i>Botany</i>		[Prof
Bews, J W , M A , D Sc Edin		
Aitken, R D , M Sc	Lectr	
<i>Business Management and Accounting</i>		
Oldham, O , A C I S	Prof	
<i>Chemistry</i>		
Denison, R B , D Sc Leeds, M A Cape, Ph D Bres.	Prof	
Mudie, A D , M A , B Sc St And	Lectr	
<i>Classics</i>		
Petrie, A , M A Aberd , B A Camb	Prof	
<i>Dutch and German</i>		
Besselaar, G , M A Cape, D Litt Ghent	Prof	
<i>Education</i>		
Ferguson, J G W , M A Ox and St And	Prof	
<i>Engineering</i>		[Prof of Mech E
Neal, J H , A R C Sc Lond		
Clark, H , B Sc Lond		Prof of El E
<i>English and Philosophy</i>		
Waterhouse, O , M A Manc	Prof	
Sweeney, G W , B A , LL B Cape	Lectr	
<i>French</i>		
Guiton, P A , B A Lond	Lectr	
<i>Geology and Geography</i>		
Sayce, R U , M A Wales	Lectr	
<i>History</i>		[Prof
Hattersley, A F , M A Camb		
<i>Law</i>		[Prof
Burchell, F B , B A , LL B Camb		
<i>Mathematics</i>		[Prof
Roseveare, W N , M A Camb		
(Applied M)	Lectr	
<i>Physics</i>		
Mesham, P , M Sc Liv	Prof	
<i>Zoology</i>		
Warren, E , D Sc Lond	Prof	

GENERAL INFORMATION (v also pp. 441, 450)

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. Students have access to Maritzburg Botanical Gardens and Govt Museum.

COURSES are provided leading to the B A , B Com , B Sc , M A , M Sc , etc , 1st examn for B Sc in Agric (including 1st yr 's course for Med students), LL B , Natal Law Certif and Natal Advocates' Law examn , Survey examn (theory only). FEES Tuition per half-yearly term—ordinary, 10 gs , Law or single subject, £5. Faculties of Engineering and Commerce have been instituted in Durban in co-operation with the Natal Technical College, five of

the staff of which have become members of the Senate of the Natal Univ College—four professors and one lecturer. One of the former is the professor of Fine Arts, and a 4-yrs' course for the B A (Fine Arts) is provided in Durban.

HOSIEL ("University Hall") in grounds for women students

THE YEAR 1923 *Number of Students* preparing for Degrees or Law or Teachers' Diplomas, 230, including 103 women *Degrees obtained* (1922)
B A 7, B Sc 7, LL B 1, M A 3, and M Sc 4

THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

CHAIRMAN OF COUNCIL—Rev N H v d WALT.

RECTOR AND CHAIRMAN OF THE SENATE—Prof POSIMA

REGISTRAR—Rev W J DE KIERK

PROFESSORS AND LECTURERS, August 1, 1923

<i>Botany and Zoology</i>		<i>History</i> [Lectr	
De Ruiter, J	Lectr	v d Walt, A J H J, M A	
<i>Chemistry</i>		<i>Mathematics</i>	
du Plessis, D J, M.Sc	Lectr	van Rooy, D J, M A	Sr Lectr
<i>Classics</i>		<i>Mathematics, Applied, and</i>	
Postma, F, D Phil Amst	Prof	<i>Physics</i>	
du Plessis, L J, M A	Prof	van Wageningen, G, Cand Maths	
Ph Cand Amst	Lectr	and Phys Amst	
<i>Dutch</i>		<i>Pedagogy</i> [Prof	
Boshoff, S P E, D Phil Amst,	Prof	van Heerden, J S, M A Harv	
M A	Prof	Coetzee, J C, M A	
Kamp, J (D and French)	Prof	<i>Philosophy</i>	
<i>English</i>		van Rooy, J C, M A	
Schulze, H G, M A	Lectr	<i>Theology</i>	
<i>German</i>		du Toit, J D, D D Amst	
Kohl, C G A	Lectr	du Plessis, J A, B A Cape	
		Prof	

GENERAL INFORMATION (v. also p 450)

Founded in 1869 as the Literature and Science department of the Theological School of the Reformed Church of S Africa, this institution became in April 1919 "Het Potchefstroom Universiteits Kollege voor Christelik Hoger Onderwijs," and was in 1921 admitted as a Constituent College of the Univ of S Africa under an Act (No 25) of the Union

THE YEAR 1923 *Benefactions* Govt grant, £2450 (limitation to ratio £1 for £1 was removed), municipality, £250, Reformed Church, £2000, Assocn for Christian higher educn, £500, others, £100 *Temporary buildings* costing £3600 erected *Death* A P C Duvenage, Prof of Maths *Students* graduate 5, undergraduate 114 (24 women) *Degrees* obtained (1922) M A 3, B A 2

TRANSVAAL UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL

CHAIRMAN OF COUNCIL—J E ADAMSON C M G , M A , D Lit Lond

VICE-CHAIRMAN—Hon Justice Sir ARTHUR W MASON, B A Lond

CHAIRMAN OF SENATE—Prof P J du TOIT, Ph D , D M V

REGISTRAR—Advocate A A ROBERTS, B A , LL B Cape and Camb

PROFESSORS AND LECTURERS, October 1923

Accountancy

Barnes, S R, F S A A Sr Lectr

Agricultural Botany

Hector, J. M., B Sc Aberd Prof

Agricultural Chemistry

Ross, J C, B A Cape, M Sc ,
Ph D Illinois Prof

Agricultural Engineering

van Tonder, A J, B A Cape,
M Sc Calif, A C G I
Sr Lectr

Agronomy

Leppan, H D, B Sc Tor Prof
Lectr in Tobacco and
Cotton

Animal Husbandry

Bosman, A M, B Sc Tor, *Dean*
of the Faculty Prof
van Rooyen, L A, M Sc Cornell,
B Sc Agr Lectr in Poultry
Lectr in Sheep & Wool

Bio-Chemistry

Green, H H, D Sc Glas Prof
. Lectr in Toxicology
Mogg, E, M A Camb
Lectr in Ecology

Botany

Hector, J M, B Sc Aberd
Actg Prof
Elbrecht, B, B A Lectr
Wright, Miss K M, B Sc Lond
Lectr

Chemistry, v also Phys

Malherbe, D F du T, M A, Ph D
Halle Prof
Schulz, W E, B Sc Asst Lectr

Commerce, v also Ac, Geog

Holloway, J E, B A Cape, D Sc
Lond, *Dean of Faculty*
Prof of *Economics* and
E Hist

Dairying

Davel, H B, B Sc Iowa Lectr.

Dutch and Afrikaans

Le Roux, T H, B A Cape, Litt D
Leid Prof
Kritzinger, M S B, M A Lectr

Economics, v Comm

Education

Hoogenhout, M N, M A Cape,
Ph D Stras Prof
Bosman, J C, M A Harv
Assoc. Prof

English

Wallis, J P. R, M A Liv Prof
Zorn, P W, B A Cape, M A Ox,
LL B Sr Lectr

Entomology

[Prof
Faure, J C, M A, B Sc Corn

French and German

de Villiers, W P, B A Cape, Ph
and Litt D Ghent Lectr

Geography and Econ Geog

Plummer, F E, B A Camb.
Sr Lectr

Geology

De Vilhiers, L C, Ph D Freiburg,
M E Freiberg Prof

Greek

Reinink, H, Litt D Amst, *Dean*
of Faculty Prof

*Hebrew, v Latin**History*

Fouché, L, B A Cape, Ph et
Litt D Ghent Prof
Agar-Hamilton, J A, M A Cape,
B A, B Litt Ox Sr Lectr

Horticulture

... Lectr

Latin and Hebrew

[Prof
Paterson, A C, M A Edin and Ox
Boxwell, J, M A (Latin)
Sr Lectr

Law, v also Pol Sc

Pittman, W, B A Cape, M A Ox
(Roman, Roman-Dutch, and
Merc L) Prof
van Pittius, Adv J H Gey,
LL D Amst (Hist of Roman-
Dutch L) Lectr
Rissik, P U, B A Cape and Ox
Asst Lectr
Neser, Adv V, B A Cape and Ox
Lectr (Crim L)

Mathematics

du Toit, A E, M A Cape Prof
Duminy, J P, M A Cape Tn
Lectr

Mathematics, Applied

Sherwood, F T G, B A Cape,
M A Camb Lectr

Music

Connell, J, F R C O Prof

Philosophy, v also Pol Sc

Macfadyen, W A, M A Ox,
LL D Cape Prof
Hugo, T. J, B A Cape, Ph D
Gron Sr Lectr

Physical Chemistry [Sr Lectr
Tromp, F. J, B A Camb, D Sc

Physics and Applied Maths

Gundry, P G, Ph D Gott, B Sc
Lond, A R C S, *Dean* of
Faculty of Science Prof
Voss, V, B A Cape, Ph D Johns
H, M Sc Lectr

Physiology

Andrews, W H, D Sc Lond,
M R C V S Prof

*Political Science, Pub Admn,
and Const Law*

Brookes, E, M A (also Lectr in
Philos) Lectr

Theology

Greyvenstein, J H J A, B A
Cape, Th D Utr Prof
Macmillan, E, M A, B D Glas
Lectr

Engelbrecht, S P, Th D Utr
Sr Lectr
Runge, C H S, B A Ox Lectr

*Veterinary Anatomy, v also Vet
Hy*

De Kock, G v d W, M R C V S,
D Med Vet (Berne) Prof
Henning, M W, M R C V S
Lectr

Vet Bacteriology

Green, H H, D Sc Glas Lectr
Robinson, E M, D M V Berne,
M R C V S Lectr

*Vet Hygiene and Infectious
Diseases*

Du Toit, P J, B A Cape, Ph D
Zur, D M V Berl (Lectr in
Embryol) Prof
Curson, H C, M R C V S Lectr
Vegha, F, D V M Turin (Helmin-
thology) Lectr
(Entomology) Lectr

Fourie, P J J, M R C V S
Sr Lectr

Vet Medicine

Viljoen, P R, D M V Berne,
M R C V S Prof.

Neser, C P, D Sc	Cape,	<i>Vet Surgery and Obstetrics</i>
M R C V S	Sr Lectr	Quinlan, J B, D M V Hanover,
		M R C V S Lectr
<i>Vet Pathology</i>		
Theiler, Sir A, K C M G, D Sc	<i>Zoology</i>	
Cape, D M V Berne, <i>Dean of</i>	Malan, D E, M A	Cape, Ph D
Faculty of Vet Sc	Zur	Prof
	Malan, D J, B Sc	Asst Lectr.

GENERAL INFORMATION (v. also pp. 441, 450)

In 1908 University Classes in Arts, Science and Law were established at Pretoria by the Transvaal Govt, and were placed under the control of the Council of the Transvaal Univ College at Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A separation took place in 1910, the Johannesburg section being reincorporated as the South African School of Mines and Technology, whilst the Pretoria section retained the name of the Transvaal Univ College. In 1917 was instituted a Faculty of Agriculture, financial provision for which (an endowment of £100,000) had been made by the last Parliament of the Transvaal in 1910. The following Faculties have since been established: 1918, Theology, 1919, Commerce and Public Administration, 1920, Veterinary Science, Music, 1923. The original College Buildings were erected and equipped at a cost of £50,000, those of the Faculty of Agric at a cost of £100,000, while those of the Faculty of Vet Science, now in process of erection, involve an expenditure of £150,000.

COURSES are provided for all Degrees and Diplomas of the Univ in Arts, Science, Agric, Vet Sc, Law, Div, Music, and Commerce and Public Administration. Fee for full degree course, £21 to £27 6s p a.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 2 for women. Board and Residence, £60 p a.

LIBRARY, 14,000 vols. LABORATORIES. Bot, Chem, Geol, Phys, Zool, Agric Bot, Agric Chem, Agronomy, Physiol, Vet Anat.

THE YEAR 1922-23

BENEFACCTIONS. £3000 given by General Smuts for the foundation of a Louis Botha Scholarship. £2500 promised by the S.A. Women's Federation. Grant from Union Government, £32,662. NLW BUILDINGS AND EQUIPMENT. Building loan obtained from Govt and tenders accepted for erection of a Science Block at a cost of £25,000. Administrative Offices will be commenced shortly at estimated cost of £8000. The new block for Bio-Chem, Physiol, Pharmacol, and Ecology in the Faculty of Vet Science was completed by the beginning of the year. A new Hostel for men has just been completed at the Vet Laboratories at Onderstepoort. A CHANGE IN REGULATIONS diminished the extent of control by the Education Dept. The Block Grant System is now being introduced, by which the Govt will make a General Purposes Grant based upon fee and other income, and the College Authority will have a free hand in its expenditure. The conditions of service will be almost entirely determined by the College Authority, but must receive the sanction of the Minister of Education. RESIGNATIONS. Acting Prof E O Amundsen (Hortic) and Prof H A Wager (Botany). SPECIAL

EVENTS · In March 1922 the work of the College was temporarily disorganized by disturbances on the Rand when a large number of Staff and Students joined the Pretoria South Commando NUMBER OF STUDENTS (1922) Arts, 207 (women, 43), Science, 115 (w, 25), Law, 60 (w, 1), Commerce and Public Administration, 169 (w, 2), Agric., 29 (w, 5), Educn, 17 (w, 8), Theol, 4, Vet Sc, 25, Special Subjects, 56 (w, 11), Total, 682 (w, 119) 4 students proceeded to Great Britain for studies in Law and Med, 5 to America for Agric and 1 for Journalism, 3 to Europe DEGREES OBTAINED IN 1922 B D, 2, B A, 28, B Sc, 14; B Sc. (Agric), 7, M A, 1, M Sc, 1, LL B, 5, Dipl Ed, 5, B Com, 4, B Econ, 3

HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

PRESIDENT—BERTHA STONEMAN, D Sc

PROFESSORS AND LECTURERS, November 15, 1923

<i>Botany and Philosophy</i> [Prof Stoneman, Bertha, D Sc Corn	<i>English</i> Snell, Florence M., M A Oberl , Ph D Yale Prof
<i>Chemistry</i> Kilroe, F C , B Sc Lond Prof	<i>French and German</i> [Lectr Hansen, Christine, Ph D Heid
<i>Classics</i> [Prof (Latin) Sargent, Helen A , M A Oberl Robson, Grace A , B A Cape Lectr (Greek and Educl <i>Psychology</i>)	<i>History</i> [Prof Stafford, Susan, M A N U I
<i>Domestic Science</i> Mackenzie, Miss L M , Dipl Home Sc Lond Lectr	<i>Horticulture</i> Hebditch, Miss G L , Dipl in H (Reading) Lectr
<i>Dutch</i> [Prof van de Koppel, Miss L H , M A	<i>Mathematics</i> [Prof Johnson, Alta M , Ph B Neb
<i>Education</i> , v also <i>Classics</i> de Wet, Miss F C , M A Col , B A Prof	<i>Philosophy</i> , v <i>Botany</i> <i>Physics</i> [Lectr Ladler, Miss E M , B Sc Lond
Bottomley, Mrs I Lectr.	<i>Zoology and Physiology</i> Newell, Miss, Ph D Ill Lectr

GENERAL INFORMATION (v. also pp. 441, 450)

Originally a department of the Huguenot Seminary founded by Dr Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ in 1918

LIBRARY, over 7000 vols HERBARIUM, over 2000 specimens LABORATORIES, Bot , Chem , Physics, Zool , Dom Sc , Physiol , Psych

COURSES for B A , B Sc , M A , M Sc , and 1st Class Teachers' Certif
Special courses in Horticulture

EXPENSES Class Fees, £16 per annum Board at the College Hostel,
£44 p a

THE YEAR 1923

NUMBER OF STUDENTS Full-time, preparing for Bachelorship, 56
Graduates taking course in Educn , 9 , other students, 5 men

DEGREES OBTAINED B A or B Sc , 12 , Teaching Certif , 8

UNIVERSITY OF STELLENBOSCH

CHANCELLOR—Prof P J G DE VOS, Litt D.

VICE-CHANCELLOR—Prof A MOORREES, Litt D S A

PRINCIPAL—Prof G G CILLIE, Ph D Stras

REGISTRAR—D J KRIEL, B A

PROFESSORS, LECTURERS, ETC, November 13, 1923

Agriculture, v also Vet [Prof
Perold, A I, Ph D Halle, B A
(Enology and Viticulture)
Neethling, J H, M Sc Corn
(A Botany) Prof
Reinecke, C S H, B S A Guelph
(Fruit-culture) Prof
Brain, C K, M A Ohio, D Sc
Birm (Entomology) Prof
Malherbe, I de V, Ph D Mun,
B A (A Chem) Prof
Reimers, J H W, Emg Rott
(Animal Husbandry) Prof
Van der Byl, P A, M A, D Sc
(Plant Path) Prof
Marais, J S, Ph D Illinois
(Agronomy) Lectr

Botany [Prof
Nel, G C, B A, Ph D Berl
Duthie, Miss A V, M A Lectr

Chemistry
van der Merwe, C D, Ph D
Halle, B A Prof
van der Riet, B de St J, Ph D
Halle, M A Prof
du Toit, D F, D Chem Leid,
M A Prof
Joubert, D B, Ph D M I T,
M Sc Lectr
Joubert, J M, M Sc, Ph D M I T
Lectr

Classics
van Braam, P, Litt D Utr, M A
(Latin) Prof
Edgar, C S, B A Ox, M A Edin
(Greek) Prof

Basson, J, Ph D Berl, M A (C
and Classical Philol) Prof
McCulla, J, M A R U I Lectr

Dutch and Afrikaans
Joubert, W A, Th D Amst, B A
(Dutch) Prof
Pienaar, E C, Litt D Amst,
B A (Dutch) Prof
van Niekerk, Lydia, Litt D Amst,
B A (Dutch) Prof
Smith, J J, B A, Barr -at-Law
(Afrikaans) Prof
Celliers, J F E (Literature) Prof
van Huyssteen, J, B A Lectr

Economics [Prof
Grosskopf, J F W, Dr Jur Leid

Education [Prof
Cillie, G G, Ph D Stras, B A
Cruse, H P, B A, Litt D Amst
Lectr (History of E)
Pauw, D A. A, B A (Method) Prof
Donald, M M, M A Lectr
Schroder, Miss A E Lectr
Stockenstrom, E C, B A Lectr

English
Notcutt, H C, Ph D Lond Prof
Mayfield, G E T, B A Lectr
Paterson, H M, M A Edin Lectr

French
Franken J L M, Litt D. Ghent,
M A Lectr

Geography
Serton, P, Litt D Utr Prof

<i>Geology</i>		Stegmann, E T, B A, D Sc S.A	
Shand, S J, Ph D Munst, D Sc			Prof
St And	Prof	<i>Mathematics, Applied, and</i>	
Krige, A V, M Sc	Lectr	<i>Physics</i>	
<i>German</i>		[Prof	
Friedlaender, E, Ph D Stras		Morrison, J T., M A, B Sc Edin	
Hoge, J, Ph D Stras	Lectr	Malherbe, W E, B A, B Sc	
<i>Germanic Philology</i>		Edin	Prof
Bouman, A C, Litt D Utr	[Prof	Loubser, M M, B A, Dipl Ing	
<i>Hebrew</i>		Chbg	Lectr
McGregor, A M, B A Ag	Lectr	Harvey, S C, B A	Lectr
<i>History</i>		<i>Philosophy, Moral and Polit</i>	
Blommaert, W, Litt D Ghent	[Prof	Brummer, N J, B D St And,	
le Roux, Miss M, B A	Lectr	M A	Prof
Gie, S F N, Ph D Berl, B A (H		<i>Physics, v Maths, Applied</i>	
of S Africa)	Prof	<i>Physiology</i>	
<i>Law</i>		Battaerd, P, M D Leiden	
Bodenstein, H D J, Barr -at-Law,	[Prof	<i>Psychology, v Logic</i>	
LL D Leid (Roman-Dutch L)		<i>Theology</i>	
Malherbe, W M R, Barr -at-Law,		Moorrees, A, Litt D (S A)	Prof
LL D Leid	Prof	van Rooyen, E E, Th D Amst,	
van Themaat, H V L, Dr Jur,		B A	Prof
D ₁ Jur Pol Leiden	Lectr	du Plessis, J, B A, B D	Prof
<i>Logic and Psychology</i>		Keet, B B, Th D Amst, M A	Prof
Wilcocks, R W, Ph D Berl, B A	Prof	<i>Zoology</i>	
<i>Mathematics</i>		De Villiers, C G S, M A, Ph D	
Mackenzie, A H, M A. Aberd		Zur	Prof
and Camb	Prof	Grobelaar, C S, M A, Ph D	
		Berl	Lectr

GENERAL INFORMATION (v. also p. 441)

The Victoria College of Stellenbosch, established 1881, beginning with a single Department, that of Arts, was in 1916, partly owing to a bequest of £100,000 by the late Jan Marais, granted the status of a University by Act No 13 of 1916 The University was formally opened on Feb. 28, 1920

FACULTIES Arts, Law, Education, Science, Theology, and Agriculture

DEGREE COURSES B A (3 yrs), B Sc (3 yrs), B Sc Agric (4 yrs), M A, M Sc, M Sc Agric (1 yr post-grad), B Ed (2 yrs post-grad), LL B (4 yrs or combined with B A, 5 yrs), D Sc, Ph D, Litt D (2 yrs after Master's degree), and D Sc Agric (1 yr after M Sc Agric), B D (3 yrs post-grad) Courses are also provided for the Secondary Teacher's Higher, Lower, and Primary Higher Certif

FEEs Registration, £2 p a, Library, 5s p a Tuition per semester for M A, M Sc, B.Sc Agric, B A, B Sc, LL B., £10 Laboratory per semester, £4 15s. (max). Examinns B A, B Sc, £10, B Sc Agric, £20, M A, M Sc, and M Sc Agric, £5; Doctorate, £10, B Educ., £8, LL.B, £30 Graduation, £2 Board and Residence, £50-£56 p a

LIBRARY. 14,000 vols

PUBLICATIONS 1 *The Calendar*, 2 *Univ Monthly* (by Students' Repr. Council), 3 *Annals*, Series A (Nos I and II) and B (Nos I and II), 4. *The Univ of Stellenbosch* (Historical Review)

RESIDENCE For 340 men, 140 women students

SCHOLARSHIPS FOR GRADUATES Generally tenable for 3 years, and open to holders of M A, M Sc, M Sc Agric, B Educ, B D, and LL B (with B A) Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p a), Hiddingh and Ebdon (£200 p a), Maynard (£60 p a)

EXTENSION WORK Evening lectures by members of staff once a week

THE YEAR 1922

NEW BUILDINGS completed (1) for Dept of Chemistry at a cost of £65,000, (2) men's Hostel (£55,000), (3) Gas Plant (£6500) New buildings for Dept of Agric (£50,000) approaching completion **LIBRARY** acquisitions, 3000 vols.

FUNDS. Govt Grant for the year, £46,000 Development Fund raised to £77,000, excluding a further donation of £5800 for special purposes

DEGREES CONFERRED M A, 10, B A, 53, M Sc, 3, B Sc, 21, B Educ, 12, M Sc. Agric, 1, B Sc Agric, 3, LL B, 3, D Sc (Hon), 1

NUMBER OF STUDENTS in 1923 Post-grad courses, 99, final year of degree course, 168, 1st, 2nd, and 3rd years, 291, Teachers' courses, 113, special, 31

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

CHANCELLOR—H R H PRINCE ARTHUR OF CONNAUGHT

VICE-CHANCELLOR—SIR ROBERT KOTZE, B A

PRESIDENT OF CONVOCATION—H J HOFMEYR, B A

CHAIRMAN OF COUNCIL—SIR WM DALRYMPLE, K B E

PRINCIPAL—JAN H HOFMEYR, M A

REGISTRAR—H W J VAN DER BRUGGE, M A, LL B

PROFESSORS, LECTURERS, ETC., October 31, 1923

Accounting [Prof
Findlay, J, C A Edin, F S A A
Eng, I A, R P A Trans
Dix, F, B Com, A S A A Eng,
R P A Trans Lectr
Finlayson, F W

Lectr in Banking

Actuarial Science, v Maths

Anatomy

Dart, R A, M Sc Queensland,
M B, Ch M Syd Prof

Edelstein, H H, M B Edin
Sr Lectr

Macgregor, A L, M B Edin
Hon Demr

Gluckmann, H, M R C S,
L R C P (also Lectr in Ven-
ereal Dis) Hon Demr

Architecture

Pearse, G E, A R I B A Prof
Lectr

Bantu Studies

The Prof of English

Head of Dept
Doke, C M, M A S A, Diploma
Compar Bantu, Lond
Sr Lectr

Hoernle, Mrs A W, B A Cape
Research Fellow and

Lectr in Ethnology

Bryant, Rev A T
Research Fellow and Lectr

Botany

Moss, C E, M A Camb, D Sc
Manc, B Sc Leeds Prof

Moss, Mrs M, M A Well Lectr

Young, Miss E, M Sc S A
Jr Lectr

Chemistry

Wilkinson, J A, M A Camb,
F C S Lond Prof

Robertson, J B, M A, B Sc
Edin Sr Lectr

George, E, M Sc S A Lectr

Pelling, A J, B A Lond Lectr

Backeberg, O G, B A Ox
Jr Lectr

*Chemistry Analysis and Re-
search*

Adam, H R, B Sc Aberd, F I C

Classics

The Principal Prof
Haarhoff, T J, B A, B Litt Ox

Prof
Wagner, A I, B A Ox and Cape

Lectr
Williams, Miss M V, B A Cape

Lectr

Dutch and German

Krige, J D A, Ph D Ghent, M A
Cape (also Lectr in German)

Prof.
Lectr.

*Economics, Econ Hist, and
Statistics, v also Hist.*

Lehfeldt, R A, B A Camb, D Sc
Lond Prof

Education, v also Philos
Macgregor, W R, M A Aberd
Prof

Electro-Technics

Heather, H J S, B A Ox,
M I C E, M I E E,
F A m I E E Prof

Damant, E L, B Sc Lond, M Sc,
A M I E E Lectr

Engineering, Mechanical

Orr, John, O B E, B Sc Glas,
M I C E, M I M E,
M A m S C E, M A m S M E
De Beers Prof

Jensen, A E, B Sc Lond and S
Afr, A M I Mech E
Sr Lectr

Gunkewitz, F, B Sc S A Sr Lectr
Drysdale, J, A M I E S Jr Lectr

Engineering, Civil

Charters, R H, M I C E Prof

English

Drennan, C M, M A Camb and
Lond Prof

Lawrie, J G, M A S A Lectr

French and Romance

Maingard, L F, M A, D Lit
Lond, Le D Paris. Prof

Mulligan, Mrs A Lectr

Geography

Wellington, J H, B A Camb and
Lond. Sr Lectr

Geology

Young, R B, M A Glas, D Sc
Edin Prof

Kupferburger, W, M Sc Stell
Lectr

Hebrew

Landau, J L, Ph D Vien, M A
[Prof]

History

Macmillan, W M, M A Ox Prof
Hodgson, Miss V M L, B A Ox
and Cape (also Lectr in
Econ H) Lectr

Law

Murray, J C Lectr.
Schreiner, O. D, B A Cape, M A
Camb. Asst

Ramsbottom, W. H, B A Cape,
LL B Camb Asst
Asst

Mathematics

[Prof
Dalton, J P, M A, D Sc St And
(also Lectr in Actuarial Sc)

Constançon, C, Dip Ing Zur
Sr Lectr

Kops, C W, B A Cape (Asst in
Actuarial Sc) Lectr

Maths, Applied

[Prof
Le May, H, M A, B Sc Glas

Metallurgy and Assaying

Stanley, G H, A R S M, F I C,
M I M E, M I M M Prof

Millin, D M, B A Cape, F I C
Sr Lectr

Mining and Surveying

Watermeyer, G A, B A Cape,
A R S M Prof

Music

Kirby, P R, M A Aberd,
A R C M Prof

Philosophy

[Prof
Hoernle, R F A, M A, B Sc Ox
Prof

MacCione, I D, M A Cape, B A
Ox (also Lectr in *Educn*)
Lectr

Physics

Paine, H H, M A Camb, B Sc
Lond & Wales Prof

Evans, G T R, B Sc Wales Lectr
Jr Lectrs

Rosenstein, V, M Sc S A

Ettlinger, B, M A Cape

Physiology

Cluver, E H, B A, D M Ox,
B A Cape O Bert Prof

Stammers, A D, B A Camb
Sr Lectr

Statistics, v Economics

Veterinary Anatomy

[Prof.
Mettam, R W M, M R C V S.

Zoology

Fantham, H B, M A Camb,
D Sc Lond Prof
Taylor, Miss E, M Sc S A Lectr
Paterson, Miss N F, B Sc
Jun Lectr

Medicine (for subjects of first
2 yrs —Anat, etc, v *supra*)

Ethics, Medical [Lectr
Davies, W T F, M D, B S Lond

Fevers, Acute Infectious
Loeser, H A, M D Zur Lectr

Forensic Medicine
Levin, J J, M B, Ch B Edin
(also Jr (C) in Surg) Lectr

Gynaecology [Prof
Grant, W Gordon, M D Aberd
Gibson, R W, M B, Ch B Camb
(C)

Medicine

Williamson, O K, M A, M D
Camb, F R C P Lond Prof
Bensusan, A, M D Brux,
M R C S, L R C P (C)
Irvine, L G, M B, C M Edin (C)
Orenstein, A J, M D Philad

Lectr (Tropical Dis)
Girdwood, R L, M D, Ch B
Edin Tutor

Porter, Chas, M D, Ch B (R U I),
D P H Camb
Instr (Vaccination)

Baumann, E P, M D, Ch B
Edin, M R C S, M R C P
Lectr (Med Dis of
Children)

de Kock, J D, M D, Ch B Edin
Lectr (Dis of the Eye)

Obstetrics

McGibbon, J, M B, F R C P
Edin Prof
Abelheim, A, M D Kharkoff (C)

Pathology and Bacteriology

Watkins Pitchford, W, M D
Lond, D P H Ox, F R C S
Hon Prof

Becker, J G, M B Glas, D P H,
D T M Liv Sr Lectr
Pirie, J H, B Sc, M D, F R C P
Edin Sr Lectr
Porter, Annie, D Sc Lond
Lectr (Parasitology)

Pharmacology

Watt, J M, M B, Ch B Edin
Prof
Crawford, J, M P S (S A) Instr

Public Health

Porter, Chas, M D, Ch B (R U I),
D P H Camb Lectr

Radiology

Steuart, W, M R C S, L R C P
Demr

Surgery, v also Forensic

Thomson, G Ritchie, C M G,
M B, C M Edin Prof
Daly, R M, M B, Ch B Durh,
F R C S Edin (C)
Mursell, H Temple, M B, Ch M
Edin, M R C S Eng (C)
Biebner, J W, M B, Ch B Edin
(C)

Welchman, W, M B, B S Lond,
F R C S Jr (C)
Mudd, F B, M R C S, L R C P
Lectr (Anæsth)

Gordon, Mary, M B, B S Durh
Hon Demr (Anæsth)
Weinbrenn, B, M B, Ch B Edin
Hon Demr (Anæsth)

Hall, Greenwood, M B, Ch B
Durh Hon Demr (Anæsth)
MacNab, J, M D, C M Glas,
F R C S

Lectr (Dis of Ear, Nose,
and Throat)
Ross, R A, M B, Ch M Edin.
Lectr (Surg Dis of
Children)

Dauth, D J, M B, Ch B Edin
Tutor.

Veneral Diseases, v Anatomy

(C)=Clinical Lecturer.

GENERAL INFORMATION (v. also p. 441)

Telegraphic address—University, Johannesburg.

The TRANSVAAL TECHNICAL INSTITUTE, constituted in 1903, was opened in 1904 and took over at Johannesburg the work of the S. AFRICAN SCHOOL OF MINES, KIMBERLEY, which had been founded in 1896. In 1906 its name was changed to "TRANSVAAL UNIVERSITY COLLEGE," and in 1908 Arts and Science classes at Pretoria were placed under its control. This arrangement was terminated in 1910, when the Johannesburg part of the institution was incorporated under the name of the S. African School of Mines and Technology. Buildings, towards the cost of which the Council of Education, Witwatersrand, contributed £60,000 and Govt £30,000, were opened in March 1909. In 1913 Commerce (Diploma) courses were established. In 1916 a Witwatersrand University Committee was formed in Johannesburg to promote the establishment of a fully equipped Univ. College financed by the State, as a step towards the formation of a University. In 1917 the School became one of the constituent colleges of the new federal Univ. of S. Africa. In the same year classes in Arts, Pure Science, and Medicine were inaugurated. In Sept. 1920 the institution became the "University College, Johannesburg." In 1921 the College was reincorporated as a University with effect from March 1, 1922. The students in 1916 and each of the following years up to 1922 numbered 77, 173, 191, 301, 635, 812, 983. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S. A., Nat. Bank of S. A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to Aug. 1923 amounted to £330,000. LIBRARIES: Seymour Memorial, 12,000 vols., and several departmental. MUSEUM with good Geol. collection.

FACULTIES Arts, Sc., Comm., Engin., Law, Med. **DEGREE COURSES** B.A. or B.Sc., 3 (Hons.), 4 yrs.; M.A. or M.Sc., 1 yr.; B.Ed., 2 yrs. post-grad.; LL.B. (post-grad.), B.Com., or B.Econ., 3 yrs.; B.Mus., B.Sc. (Eng.), B.Arch., or M.B., B.Ch., 4 yrs. **OTHER COURSES** for Teachers' Certifs., Dipl. Archit., Law Certif., Civil Service Law examin., Land Surv., Dent. (Prelim. subjects), Vet. Sc. (first 2 yrs.), Evening Classes at Johannesburg and elsewhere in Tech. and other subjects. **FEES** from 12 gs. p.a. (Civil Service Law) to £35 (M.B.).

SCHOLARSHIPS open to Graduates. Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200.

RESIDENCE Hostels for 150 men and 35 women. **FEES**, £60 p.a.

UNIV. EXTENSION Public lectures at the Univ. fortnightly; course of lectures at Benoni; W. E. A. Discussion circle; afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree.

PUBLICATIONS *Calendar*, *Students' Magazine* (S. R. C.)

THE YEAR 1922-23

BENEFACTIONS AND GRANTS. Johannesburg Municipality, £25,000 for a Municipal wing in Central Block of new Univ. Buildings. The H. B. Webb

Gift Trustees, £200 p a for 5 yrs for Research Scholarships Chamber of Mines increased value of its Scholarship from £250 to £350 Native Recruiting Corps and Witwatersrand Native Labour Assocn, £1000 p a for 3 yrs for a dept of Bantu Studies Union Govt grant of £56,730 for current expenditure and £90,000 loan for building (Govt itself bears $\frac{2}{3}$ of the interest and redemption charges) Johannesburg Municipality grant, £6000 for general purposes and £5000 for bursaries, other Municipalities, £1440 for General Purposes and £985 for bursaries

BUILDINGS completed for Depts of Bot, Zool, Geol., and Appl Maths at a cost of £65,000, approaching completion for Depts of Physics and Chem, costing about the same, Arts and Administration Block commenced

NEW DEPARTMENTS AND POSTS A Dept of Bantu Studies, with a Lectr. and 2 Research Fellows and Lectrs, Lectrs in Med and Surg Dis of Children, Vaccin, Pub Health, Dis of Ear, Nose, and Throat, Skin Dis, Trop. Dis, Forensic Med, Venereal Dis, addl Jr Lectr in Chem A proposal to constitute a *Technical Education Board*, with outside representation, but controlled by the Univ, to take over the elem tech evening classes hitherto conducted by the Univ, and generally to develop continuation classes and work of a similar character, has been adopted in principle

REGULATIONS A degree of B Ed to be instituted (2 yrs after B A or B Sc), Bantu and "History of the Fine Arts" recognized as subjects for the B A, number of Music subjects for B A increased to 5

CO-OPERATION WITH OTHER INSTITUTIONS A conference of the four South African Univs was held at the invitation of this Univ to arrive at a common policy in the matter of Univ diplomas in Education

RESIGNATIONS Prof. E P Stibbe (gone into private practice), succeeded by R A Dart from Univ Coll, London Prof J MacMurray, appointed Fellow of Balliol College, Oxford, succeeded by R F A Hoernle from Armstrong College

SPECIAL EVENTS. The First Ordinary Graduation Ceremony of the Univ. was held on March 17, 1923

STUDENTS Graduates, 20 (including 7 women), full-time undergraduates, 687 (310 women), part-time, 371 (64 w), occasional, 28 (23 w) By faculties Engineering, 158, Law, 85, Commerce, 147, Arts, 390, Science, 116, Med, 206 About 15 Med and Dent students went to Britain or America to continue studies, 8 went overseas for advanced work

DEGREES CONFERRED in 1922 (in which year power to confer them was obtained) B A, 41 (women, 13), B Sc, 14 (w, 7), M Sc, 2, B Sc (Eng), 12, M Sc (Eng), 1, B Com, 3, LL B, 2

UNIVERSITY OF MALTA

VISITOR—H E. THE GOVERNOR OF MALTA

PRESIDENT OF THE GENERAL COUNCIL AND RECTOR—Hon Prof T
ZAMMIT, C M G, M D, Hon D Litt Ox

SECRETARY—A F SCIORTINO

PROFESSORS, LECTURERS, ETC, November 1922

Anatomy and Histology

Busuttil, R, M A, M D Prof
Briffa, J, B Sc, M D Asst Prof

Biology, v Nat Hist

Chemistry

Sultana, A, M D Prof
Borg, S, M D Demr in Expl Sc

Engineering and Architecture

Galea, R V, L S & A (also Lectr
in Descr Geom and Arch
Drawing) Prof

English Literature

.. Prof

Latin and Italian Literature

Prof

Law

Vassallo, Most Rev Can E, Jur
Can Doc (Canon L.) Prof
Mallia, C, B Litt, LL D (Comm
L) Prof
Vassallo, E. C, M A, LL D
(Const and Internat. L) Prof
Randon, L A, M A, LL D
(Crim & Science of L) Prof
Bartolo, A, B Litt, LL D, M L A
(Hist of Legisln in England
and Malta) Prof
Frendo, P G, LL D, M L A
(Fiscal Laws, Statistics and
Admn) Prof

Logic and Philosophy

Cuschieri, Senator Very Rev A,
O C Prof

Mathematics and Pract Engin

Nixon, W F, B Sc Lond,
A R C Sc Lond, Wh Sch
Prof

Mechanics, Applied, and Drawing
Gatt, J L, L S and A Prof

Medicine and Surgery, v infra

Natural History

Borg, John, M A, M D Prof

Philosophy, v Logic

Physics

Agius, T, M A, M D Prof
Borg, S, M D Demr in Expl Sc

Physiology and Pathology

Samut, R, M B, C M Edin Prof
Vincent, R, M D Asst Prof

Political Economy

Sultana, A., LL D. Prof

Theology

Formosa, Mgr. G, B A, D D,
J U D Prof of Dogm T
Zammit, C, D D Prof of Moral T
Gonzi, Senator Mons Can, B Litt,
J C D, D D
Prof in Holy Script and
Hebrew

Medicine

Forensic M and Toxicology

Ullio Xuereb, G (v Mental) Prof

Hygiene and Preventive M

Bernard, A V, M B F., M D,
D P H Prof

<i>Materia M, Pharmacy and Therap</i>		<i>Midwifery and Gynaecology</i>	
Cassar, I, M D	Prof.	Debono, G, M D	Prof
		Harding, H, M D	Asst Prof
<i>Medicine</i>		<i>Ophthalmology</i>	
Mifsud, Hon C Sen, M D	Prof	Vassallo, A, M A, M D	Prof
Debono, S, M D	Asst Prof	<i>Pathology, v. Physiology</i>	
<i>Mental Diseases</i>		<i>Surgery</i>	
Ullio Xuereb, G, M D	Prof	Cassar, S, M D	Prof.
		Attard, G, B Sc, M D	Asst Prof

GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonseca of the Order of St John under the authority of Pope Clement XIV, the University is lodged in a building erected by the Jesuit Fathers in 1591-93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

LIBRARY, 5000 vols. A public library maintained in connexion with the Univ contains over 100,000 vols and is rich in MSS and rare editions of great historical interest. **MUSEUMS** Nat Hist and Archæol. **OBSERVATORY**, full meteorol equipment and seismograph. **BOTANICAL GARDEN**. **HOSPITALS**, available for Clinics: general (260 beds) and several special, Leper Asylum (100), lunatic (700), aged poor (800).

FACULTIES Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

MATRICULATION involves passing an examn in 5 subjects, including English, Italian, Maths, and, except for Engineering courses, Latin, for Med students proposing to register in England, 6 subjects, including also Hist.

DEGREES, ETC. B A, B Sc, B E and A, M D, LL D, D D, B L. Can Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

SCHOLARSHIPS FOR GRADUATES £120, one each in Theol, Law, Engin, and Med (Travelling Scholps) £50, one each in Theol, Law, Med. One of £120 awarded every 6 years in the faculty of Med.

THE YEAR 1922-23

NUMBER OF STUDENTS Full-time, preparing for B A, 3, B Sc, 4, B Eng. and Arch, 1, Dipl in Pharm, 6, D D, 4, LL D, 16, M D, 21, others, 12.

DEGREES CONFERRED LL D, 1, Pharm and Apoth, 2.

RETIREMENT Profs C Grima and F Borg.

THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the Univ. The London Univ., at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. “It had been suggested, in London, by conditions which resembled those of Bengal. Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work” (*Report of the Calcutta Univ. Commission, 1917-19*). In pursuance of this policy, Univs. were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Univs. should have no teaching functions, but in point of fact they have until recently concerned themselves solely with examinations. In 1882 and 1887 the Univs. of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Univs. Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Univs., their assumption of teaching functions, and more effective supervision by them of the Colleges as well as more exacting conditions of affiliation. Univ. Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Univs., but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Univs. were established in 1916 and 1917. The foundation, structure, and working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta Univ. Commission, 1917-19. In the Univ. of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which were established in 1920 and the two following years the unitary, teaching, and residential Univs. of Aligarh, Dacca, Delhi, Lucknow, Rangoon, and the Osmania Univ. of Hyderabad, Deccan, and on which the Univ. of Allahabad was re-organized in 1921. Recently the Nagpur Univ. has also been estab-

lished by legislation, and the Univ of Madras is being reorganized on lines somewhat similar to those of the Allahabad Univ

CONSTITUTION (a) The Univs of Calcutta, Bombay, and the Panjab are still governed by the constitution framed under the Act of 1904. The Senate, comprising the (official) Chancellor, the Vice-Chancellor, and Fellows, constitute the Body Corporate of the Univ, the executive government being vested in a Syndicate of from 9 to 17 members, including the Vice-Chancellor and Director(s) of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. The constitution and abolition of Faculties rests with the Senate.

(b) The new Univs have a constitution modelled generally on that recommended for Calcutta by the Calcutta Univ Commission —(1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council, (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers, (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the Univ, and for the initiation of all changes in academic matters. The executive officers of the new Univs are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now introduced as the Visitor, with powers of inspection.

ADMISSION TO UNIVERSITY EXAMINATIONS is restricted to students of the Univ and its affiliated Colleges, special exemptions in the case of teachers and similar persons being granted by the Syndicate or the Executive Council.

For **ADMISSION TO THE UNIVERSITIES** of Allahabad, Lucknow, Aligarh, and Dacca a student must have passed an examn equivalent to the intermediate examn of an Indian Univ. For admission to all other Universities a candidate must have studied at a recognized school and passed a matriculation or school final examn.

Applications for **AFFILIATION** are submitted by the Syndicate, if satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc., to Government. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections.

TERMS Univ examns are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept or Oct.

DEGREE COURSES In *Arts and Science* a 2 yrs.' course leading to an

Intermediate examn is followed by a further 2 yrs ' course for the Degree. English is a compulsory subject Madras gives a B A Honours degree requiring an additional year of study

Law The LL B. (or B L) course covers 2 yrs after graduating in Arts or Science

Medicine The M B and B S course covers 5 yrs , starting from the Intermediate examn in Arts or Science or (Bom and Calc) 6 yrs from Matricn.

Teaching The B T (All and Mad —L T) courses cover 1 yr after graduating in Arts or Science Calc gives a L T , obtainable by 2 yrs of study after passing the Interim examn in Arts or Sc Bombay requires either 3 yrs ' experience or 2 terms at a Training College after graduation, *plus* 1 yr 's experience thereafter

Engineering For the B E , Bombay gives a 3 yrs ' , Calc and Mad a 4 yrs ' , course

HIGHER DEGREES The M A or M Sc , can be taken by bachelors of 2 yrs ' standing , the M Sc Mad by B Sc (Hons) of 1 yr 's standing , the Ph D Mad by B A (Hons) or M A of 3 yrs ' standing , the D Litt of All and D Phil of Calc by M A of 3 yrs ' standing , the D Lit or D Sc of Panj by M A or M Sc after 2 yrs of further advanced study , the D Sc of All by M Sc after 1 yr of further study , the D Sc of Calc or Mad by M Sc of 3 yrs ' standing

The LL M of All and Bom , the M L of Mad , and the LL B (Hons) of Panj may be taken by LL B or B L of 2 yrs ' standing, the M L of Calc at any time after taking the B L The LL D (or D L) is open to LL M (or M L) after 5 yrs (Calc 1 yr) of practice

The M D (and in Calc M O) can be taken by medical graduates after experience (Luck and Panj 4 yrs , Calc and Mad 3 yrs , Bom 5 yrs) in the practice of their profession or hospital practice (Luck and Panj 2 or 3 yrs , Mad and Calc 1 or 2 yrs , Bom 1 or 2 yrs , in addition to professional practice) The M S qualifications are similar, but in Calcutta both hospl and professional practice are required

STATUS OF THE NEW UNIVERSITIES The Univs of Aligarh, Benares, Dacca, Delhi, Lucknow, Patna, and Rangoon have been incorporated by acts of the Indian Legislature, and their degrees and examns are recognized by the Govt of India to be equal in value to those of the older Univs for the purpose of admission to public services The Mysore and Osmania Univs were established by local legislation in Indian States, and are not within the jurisdiction of the Govt of India The degrees of Mysore have been recognized by the Univs of Bombay, Calcutta, and Madras, and by the Govt of India The Osmania Univ degrees have been recognized by the Govt of India as equivalent to those of the Univs established by law in India Professor Karve's scheme for an Indian Univ for women with headquarters at Poona proposes to organize there and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women It is on entirely independent lines, and seeks no recognition or aid from Govt

NUMBER OF STUDENTS in March 1922 in the 231 Arts and Professional Colleges was 59,595, including 1529 women

RESIDENCE. One of the recommendations of the Commission of 1902 was that much closer attention should be given to the conditions under which students live and work, and very large sums have since been spent in providing hostels and otherwise improving the conditions of student life. In 1921-22 some 20,466 students (including 955 women) of Arts and Professional Colleges were accommodated in hostels or boarding-houses.

CONFERENCES In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Assocn of Indian Univs. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, but has not yet been realized. The Central Advisory Board of Education considers questions with regard to the equivalence of degrees and the standardization of examinations.

INDIAN STUDENTS AT THE HOME UNIVERSITIES In view of the difficulties which have been experienced by Indian students coming to the United Kingdom, an organization has been established by Government for their assistance. This organization is under the control of the High Commissioner for India, and consists of an Indian Students' Department at 42 Grosvenor Gardens, S W 1, in charge of two Joint Secretaries to the High Commissioner for Indian Students' work, N C Sen, O B E, and Thomas Quayle, D Lit, M A, assisted by R M J Knaster, B A, and V I Gaster, B A. There is also under the control of the Department a hostel at 21 Cromwell Rd, S Kensington, S W 7, which serves as a centre and meeting-place for Indian students in London and for a temporary residence for new arrivals. (Fuller information can be obtained from the Warden, or from the Advisory Committees in India.) There are Local Advisers to Indian Students at Manchester, Edinburgh, and Glasgow, and eleven Advisory Committees in India (Allahabad—Sec, P N Sapru, M A, LL B, Barr-at-Law, The University, Ajmere—Sec, L T Watkins, Rajputana, Bombay—Sec, Prof F M Dastur, M A, Univ Buildings, Calcutta—Sec, Prof J C Coyajee, B A, LL B, 7 College Sq, Dacca—Sec, Prof. B N Das, M A, B Sc, Delhi—Sec, S N Mukarji, St Stephen's College, Gauhati—Sec, J Barooah, Barr-at-Law, Lahore—Sec, Kunwar Dahn Singh, B A, Barr-at-Law, Madras—Sec, A Davies, M A, Barr-at-Law, Principal, Law College, Nagpur—Sec, S R Pandit, M A, LL B, Barr-at-Law, and Patna—S N Sahay, B Sc, B A, Barr-at-Law).

The Indian Students' Department at 42 Grosvenor Gardens comprises a bureau for the supply of information on educational matters, and the Jt Secs act as guardians to Indian students when requested by the parents in India. A *Handbook of Information on the Educational Facilities of the United Kingdom* was published by the Department in Dec 1922, and a new edition is in course of preparation. An annual report on its work is also published, copies of which can be obtained from the office of the High Commissioner or through any of the Agents for the sale of Govt of India Publications.

The posts of Local Adviser to Indian students in Oxford and Cambridge were abolished in 1916, and were replaced by a Secretary to the

Delegacy for Oriental Students at Oxford, and a Secretary to the Inter-Collegiate Indian Students Committee at Cambridge These gentlemen are Univ officers, and are in no way under the control of the High Commissioner for India.

Lord Lytton's Committee on Indian Students published their report in 1922 (H M Stationery Office, pp 518 , price 5s)

ALIGARH MUSLIM UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA

CHANCELLOR—HER HIGHNESS NAWAB SULTAN JEHAN BEGUM OF
BHOPAL, G C S I, G C I E, C I, G B E

PRO-CHANCELLOR—HIS HIGHNESS AGA SIR SULTAN MOHAMED SHAH
AGA KHAN, G C S I, G C I E

VICE-CHANCELLOR—KHAN BAHADUR N MD MOZAMMIL ULLAH KHAN,
O B E

PRO-VICE-CHANCELLOR—ZIA-UD-DIN AHMAD, C I E, M A Camb,
D Sc All, Ph D Gott

TREASURER—NAWAB SYED MAHOMED ALI

REGISTRAR—S SAJJAD HYDER, B A

LIBRARIAN—L K HYDER, Ph D

TEACHING STAFF, October 17, 1923

<i>Arabic</i>		Dickinson, E C, B A Ox Prof	
Tritton, A S, M A Ox, D Litt		Inamullah-Khan, M A Calc	Reader
Edin	Prof		
Abdul-Haq-Baghdadi	Reader	1 Lectr and Tutor	
1 Lectr			
<i>Botany</i>		<i>Geography</i>	
Rafiq-Ahmad, M Sc	Lectr	Dann, E W, M A Ox	Prof
		1 Lectr	
<i>Chemistry</i>		<i>History and Polit Sc</i> [Reader *	
Haider-Khan, M, B A Camb and		Haleem, A B A, B A Ox	
All, B Sc Lond	Prof	1 Lectr	
Bukhsh, A, M A, B Sc All		<i>Islamic Studies</i>	
	Reader *	Ashraf, M S	Reader *
1 Lectr, 1 Demr		1 Lectr	
<i>Economics</i>		<i>Law</i>	
Hyder, L K, B A All and		Ali Naqi, Syed, B A	Reader *
Camb, Ph D Heid	Prof	Abul-Hasan, Barr -at-Law	
			Reader
<i>Education</i>		2 Lectrs	
Mukerji, N K, B A, C T	[Reader	<i>Mathematics</i>	
1 Lectr		The Pro-Vice-Chancellor	Prof
<i>English</i>		Kureishy, A M, M A	Reader *
	Prof	1 Lectr	
	Prof		

* Chairman of Dept

<i>Persian</i>	[Reader *	<i>Theology</i>	
Hamid-uddin-Khan, M A All		Ansari, A (Sunni)	Dean *
<i>Philosophy</i>		Husain, S U. M Abbas (Shua)	Prof *
Sharif, M M, B A Camb Prof.		<i>Sanskrit</i>	
Zafarul-Hasan, Syed, M A All,		Sarup Shastri, Pandit Ram	
Ph D Erl	Reader		Reader
1 Lectr		<i>Urdu</i>	[Reader *
<i>Physics</i>	[Prof	Sajjad Hyder, Syed, B A	
Mullick, D N, B A, D Sc Calc		1 Lectr	
Murad, F D, B A, M Sc Panj		<i>Zoology</i>	
	Reader *	Mohamed-Sheif, M Sc	Lectr.
1 Lectr and Tutor, 1 Demr			

* Chairman of Dept

GENERAL INFORMATION (v. also p. 474)

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ School and Intermediate College attached as separate institutions. The Univ receives Rs 1,00,000 annually from the Govt of India, Rs 50,000 from the Local Govt, Rs 36,000 from the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 21,000 vols. LABORATORIES Physics and Chem

The INTERMEDIATE COLLEGE prepares for the High School and Intermediate Exams, the latter being the admission examn for the Univ. The Muslim Univ SCHOOL is a feeder to the Intermediate College and a practising school for the TRAINING COLLEGE.

COURSES For students who have passed the Intermediate examn of an Indian Univ two-year courses for the B A or B Sc. Courses leading to M A, M Sc, and LL B degrees are also provided. FEES for Tuition, Rs 8 to Rs. 15 p m, Board and Residence about Rs 20 p m.

THE YEAR 1922-23 Total number of Students in the Univ, Intermediate College, and Univ School—1600

UNIVERSITY OF ALLAHABAD

PATRON—THE GOVERNOR-GENERAL OF INDIA

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND THE EXECUTIVE
COUNCIL—Hon Mahamahopadhyaya GANGANATH JHA, M A,
D Litt

REGISTRAR—M G V COLE, M A.

DEPUTY REGISTRAR—J M DAVID, B A.

PROFESSORS, LECTURERS, ETC., October 1923

Arabic and Persian Lectrs

Ali Nami, Syed Mohd, M A
Ali, Syed Ishaq, C T, M F.
Zubaid Ahmad, M G, M A
Majduddin, Syed, M A
1 part-time teacher

Botany

Mitter, J H, M A, B Sc Panj
Reader
Saksena, R K, M Sc. Lectr
1 part-time teacher
3 Demrs

Chemistry

Dhar, N R, M Sc Calc, D Sc
Lond, I E S Prof
Sircar, Rai Saheb A P, D Sc,
I E S Prof
Deb, S C, M A Reader.
Chatterji, K P, M Sc Lectr.
Tamm, I N, M Sc Lectr
4 Demrs.

Commerce and Economics

Burnett-Hurst, A R., B Sc Lond.,
I.E.S. Prof.
Rudra, S. K, B.A Camb
Reader.
Ghosh, M K, M A., B Com. Lond
Reader.
Karwal, G. D, M.A. Panj. Lectr
Bhatnagar, B. G., M A. Lectr.

Vaish, R K, M A Lectr.
Asthana, N P, M A, I.L B
Hon Teacher (Comm Law)
3 part-time teachers

Education

Simpson, A A, M A Aberd Prof.
Wall, W G P, M Sc Liv
Reader

Lectrs
Bhattacharya, K C, M Sc Alld,
L T
Chatterji, F B, B A, L T, LL B
Kishore, K, B A, L T
Mukerji, D N, B Sc, L T.
Roy, S P, B A, L T
Gardner, O J, M A Ox
Prof (Practising School).
1 Asst (Manual Training)

English

Dunn, S G, M A Ox, I E S
Prof.
Ewing, J A, M A Edin, B A.
Ox Reader.
Jha, A N, M A. Reader.
Pande, S A, M A, LL.B Lectr.
Deb, S C, M A Lectr.
Ojha, Damri, M A, LL.B. Lectr.
Gopal, Madan, M A Lectr
4 part-time teachers.

History

Khan, S. A., M.A., Litt.D Prof

Lloyd, C. P. W., M A. Dub., I E S	Radford, E. A., M A Ox, I E S
Reader.	Reader
Parmanand, M A.	Lectr.
Tripathi, R. P., M A	Lectr
Prasad, Beni, M A	Lectr
Jardine, K. W. S., B A	Lectr.
Prasad, Ishwari, M A, LL B	Lectr
2 part-time teachers	
<i>Law</i>	
Weir, J. C., B A, LL D	Dub,
Barr -at-Law	Prof
Chaudhri, S. C., M A	Calc, LL B
Reader	
Wali Ullah, M., M A, B C L	Ox,
LL D	Dub, Barr -at-Law
Reader	
<i>Mathematics</i>	
Banerji, A. C., M Sc	Calc, B A
Camb, I E S	Reader.
Mitra, K. B., M A	Calc
Reader	
Srivastava, P. L., M A	Lectr
<i>Philosophy</i>	
Burrell, P. S., M A	I E S
Prof	
	<i>Physics</i>
	Saha, M. N., D Sc
	Calc
	Prof
	Bhargava, S. R., M Sc
	Reader
	Ghosh, R. N., M Sc
	Lectr
	3 Demrs, 1 part-time teacher
	<i>Sanskrit</i>
	Acharya, P. K., M A
	Calc, Ph D,
	D Litt
	Lond, I E S
	Prof
	Saksena, B. R., M A
	Lectr
	Ojha, R. B., M A, LL B
	Lectr
	Misra, Umesh, M A
	Lectr
	<i>Zoology</i>
	[Reader
	Bhattacharya, D. R., M Sc
	Dass, B. K., M Sc
	Lectr
	Das, R. S., M Sc
	Lectr
	2 Demrs

COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission)
Principal, and Prof of English—C. A. R. Janvier, M A Princeton, D D Vice-Principal, and Prof of Philos—N. C. Mukerji, M A Calc Other Profs
J. C. Manry, M A Harv, Ph D Iowa (Philos), N. B. Mitra, M A Calc (Maths), N. K. Sur, M Sc (Physics), C. D. Thompson, Jr, M A Col (Econ), Winfield Dudgeon, Ph D Chic (Bot), H. G. Kribs, B D Union, Ph D Penn (Zool), Syed Zamin Ali, M A 14 other Profs, etc

KAYASTHA PATHSHALA COLLEGE, Allahabad Principal—Tara Chand, M A., D Phil 9 other Profs and 1 Demr.

CROSTHWAITE GIRLS' COLLEGE, Allahabad Lady Principal—Mrs S. Naik, M A. Teachers—Miss Sudhalata Decara and Miss Snehalata Decara

GENERAL INFORMATION (v. also p. 474)

Founded in 1887, the Univ concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Thereafter it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges.

LIBRARY, 27,000 vols MUSEUM in connexion with Economics Dept.

FACULTIES Arts, Science, Law, Commerce

DEGREES, ETC. B A , M A , D Litt , B Sc , M Sc , D Sc ; LL B , LL.M., LL D , L T. (Teaching) , B Com.

SCHOLARSHIPS FOR GRADUATES 2 Emp Vict Research Readerships, Rs. 100 p m (3 yrs) for M.Sc. , 3 Research Scholarships of Rs. 100 each (1 yr) in History Dept

RECOGNIZED HOSTELS Nine at Allahabad and Agra

PUBLICATIONS *Calendar , Arts, Sc , and Law Examns Prospectus*, Rc. 060 , *B Com Prospectus*, Re. 070 , *University Magazine*, Rs 28 p a , *Journal of Economics*, Rs 12 p a . *Annual Report*.

ASSOCIATED COLLEGES

[M A , etc , after name of College = teaching up to M A , etc , standard]

AGRA COLLEGE M A , M Sc , LL B Principal and Prof of *English Lit*—T Cuthbertson Jones, B A Lond Other Profs *English*—C Goswami, M A *Arabic and Persian*—Syed Mohd Ibn. Ibrahim, M A *Biol*—K C Mehta, Ph D Camb , M Sc Panj *Chem*—H Krall, B A , B Sc Dub , B L Vaish, M Sc *Economics*—L N Ghosh, M A *History*—D L B Riley, B A Ox *Law*—Nilmani Dhar, B A , B L Calc , Joti Prasad, B A , B Sc , LL B *Maths*—E N Banerji, M A , B Sc *Physics*—S P Prasad, B Sc Calc , B A Camb , S K Mukerji, M Sc *Sansk*—K L Misra, M A *Zool*—H S Seth, M Sc 13 Lectrs and 5 Demrs

AGRA, *St John's College* M A , except in Economics , M Sc in Maths Under the general control of the Church Missionary Society Admits non-Christians, but is especially for Christians Principal and Prof of *English*—A W Davies, M A Ox Vice-Principal and Prof of *Commerce*—L Steele, F I A Lond Other Profs *English*—W Owens, B A , M B E , C Mahajan, M A , J C Biswas, M A Calc *Philos and Logic*—I D Sulley, B A Ox , Jwala Prasad, M A , H B Mundle, M A Calc *Maths*—C Chaturvedi, M A , B Sc , C B Srivastava *History*—J C Taluqdar, M A Calc , M F Carver, B A Ox *Economics*—C E Johnston, M A Tor , B Litt Ox *Arabic and Persian*—A H Faridi, M A , L T , M Ali Ahmad-Khan *Physics*—A C. Datta, M A Calc , K C Banerji, M Sc *Chem*—N M Antani, M A Bom , R L Kapur, M Sc *Zool*—C John, M A Mad , Inayat Ali Khan, M Sc Panj *Botany*—N M Mukerji, M Sc Calc *Sansk*—Pt Ghanshyam Sharma 8 Lectrs and Demrs

AJMER, *Gout College* B A , B Sc in Maths , Physics, and Chem Principal—A Miller, M A , St And. 11 Profs , etc.

BAREILLY COLLEGE B A Principal—J H. Maxwell, M A Offg , S K. Mitra, M A 9 other Teachers.

CAWNPORE, *D A V. College* B.A. Principal—Diwan Chand, M A 11 other Profs.

CAWNPORE, *S D College of Commerce* B Com. Principal—S. P. Bhargava, M A , LL.B. 8 other Teachers

GORAKHPUR, *St Andrew's College*. B A. Principal—A. C. Pelly, M.A. Camb 11 other Profs.

GWALIOR, *Victoria College*. B A. ; B Sc Entirely supported by the State. Principal—H. F Manley, M.A Camb 17 other Profs.

INDORE, *Christian College*. M.A. in Philos. Principal—R A King, M.A

Manit., B D Edin, D D Tor Other Profs. A A. Scott, B.A Tor.; H. W. Lyons, B A Tor 6 other Profs, etc

INDORE, *Holkar College* B A; B Sc Maintained by the State. Principal—V. A Sukhtankar. 16 other Profs

JABALPUR, *Trammig College* L T A Govt Institn Principal—E A. Macnec, M A Profs—Satish Chandra Ghoshal, B A., B Sc, LL B, Gangadhar Govind Kanetkar, M A, Sheoram Hari Gokhale, M A.

JAIPUR, *Maharaja's College* M A, B Sc. Maintained by the State. Principal (Dir of Pub Instruction)—N K Ray, B A. Calc 14 Profs.

JODHPUR, *Jaswant College*. B A. Principal—Suraj Prakash, M A 7 Profs

MEERUT COLLEGE B A, B Sc, LL B Principal—W. Jesse, M A Camb, S O Purves, M A Camb (Acting) 18 Profs, etc

THE YEAR 1922-23

BFNLFACTIONS Govt Grant, Rs 6,66,750 (for 1923-24), Mrs M N. Dutt, Rs 1100, Gold Medal

NEW AFFILIATIONS Agra College, up to M Sc in Botany, Sanatam Dharma College, Cawnpore, for B Com degree

OTHER IMPORTANT EVENTS Muir Central College buildings were made over entirely to the Science Depts of the Univ Extensions to the Physical, Chem., and Bot Laboratories were carried out at a cost of Rs 1,51,743 Univ buildings were equipped for the use of depts of Teaching on the Arts side, and the Indian Press was, by means of structural alterations, converted into class rooms, lecture theatres, and Library. Departmental libraries were organized in each dept A Univ Union and a Univ Training Corps were started The *Journal of Indian History* ceased to be a Univ. publication The Univ. held its last Matricn, Intermediate, and Commercial Diploma exams in 1923 In future these exams will be conducted by the U P Board of High School and Interm Education The Univ ceased its connexion with the colleges in the Central Provinces and Berar with effect from August 4, 1923, the date on which the Nagpur Univ Act, 1923, came into force

NUMBER OF STUDENTS EXAMINED IN 1923 B A. and B Sc, 1175, LL B (Pre. and Final), 888, L T, 183, M A and M Sc (Pre and Final), 362, Comm'l Diploma, 106

DEGREES CONFERRED IN 1923. B.A., 462; B Sc, 107, LL.B, 299, L.T., 80, M A., 84, M Sc., 17

BENARES HINDU UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA, *ex officio*.

VISITOR—THE GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

CHANCELLOR—THE MAHARAJAH OF BARODA

PRO-CHANCELLOR—THE MAHARAJAH OF BIKANER.

VICE-CHANCELLOR—Pandit MADAN MOHAN MALAVIYA, B A , LL B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—PRINCIPAL A B DHRUVA, M A , LL B

TREASURER—HON. RAJA MOTI CHAND SAHEB, C I E

REGISTRAR—Professor SYAMA CHARAN DE, M A.

On April 1, 1916, a teaching and residential Hindu University was incorporated " for the purposes, among others, of making provision for imparting education, literary, artistic, and scientific, as well as agricultural, technical, commercial, and professional, of furthering the prosecution of original research, and of giving instruction in Hindu theology and religion, and of promoting the study of literature, art, philosophy, history, medicine, and science, and of imparting physical and moral training."

The University began to function on Oct 1, 1917, when it became responsible for the maintenance of the Central Hindu College, Benares. Colleges of Oriental Learning and Theology, and a Training College were opened in July and Aug 1918, a College of Engineering in 1919, and a Law College in 1923. The Univ's assets, including perpetual grants by the Govt of India and by Ruling Chiefs of Rs 1,00,000 and 75,000 respectively, are valued at Rs 1,80,00,000

Every member of the *Court*, the supreme governing body, must be a Hindu *. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus, it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members, (2) 5 members nominated by the Visitor, (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively

LABORATORIES : Chem , Physics, Zool., Bot., Geol , Mining, and Metallurgy. The Engineering College laboratories include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry, and motor-car repair shop , a power-house is also attached to the College

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and exams., degrees, etc.

* An exception was made in the case of Dr. Annie Besant

FACULTIES Oriental Learning, Theology, Arts, Science—Pure and Applied, Law.

DEGREES B A, M A, D Litt, B Sc, B Sc in Appl. Sc (Engin), B Sc in Mining and Metallurgy, M.Sc, D Sc, Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastry, Dharmacharya, LL B, LL M, LL D, L T. The minimum qualification for Degree course (5 yrs) in Engin or in Mining and Met is Interin Sc. examn of an Indian Univ

RESIDENCE Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 3 hostels accommodating 1000 students and 84 residences for members of the staff

SCHOLARSHIPS. 76 for Arts and Science students of merit, 40 for Teachers' Training College. Numerous other College Scholps.

DEGREES CONFERRED IN 1923 B A, 90, M A, 17, B Sc, 13, M Sc, 10, L T, 51, Shastri, 9, Smritiratna, 1

COLLEGES MAINTAINED BY THE UNIVERSITY

CENTRAL HINDU COLLEGE Principal (Univ Prof of Sansk)—A B Dhruva, M A, LL B. Honorary Univ Profs Sir P C Roy, Kt, C I E, D Sc (Chem), Nil Ratan Dhar, M A, D Sc (Phys Chem), C V Raman, M A (Phys), B Keightley, M A (Philos), P K Telang, M A, LL B (Hist), N C Nag, M A, F I C (Chem), V G Kale, M A, and H R Batheja, M A (Econ). Other Univ Profs G Prasad, M A, D Sc (Maths), N P Gandhi, M A, B Sc, A R S M, A I M M, F G S (Mining & Metallurgy), H. R Mehra, Ph D (Zoology), K K Mathur, B Sc (Geol), R S Inamdar, B A Camb. (Biol). Lectrs in *Biol*—N K Tewari, M Sc, H C Ahuja, M Sc, Y Bharadwaj, M Sc, S C Varma, M Sc, Chandrabal, B Sc *Chem*—M B Rane, M A, S K. Basu, M Sc, N N Godbole, M A, B Sc (on leave), K P Kuppikar, P S Varma, M Sc, D N Banerji, M Sc, P N Roy, M Sc, A T Mazumdar, M Sc *Econ*—H L Chablan, M A, Gurmukh Singh, M Sc, G C Varma, M A *Ingl*—P Seshadri, M A, K. Prasad, M A, Barr-at-Law, M M Desai, M A, J S Yajnic, M A, LL B, S N Lal, M A *Hist*—K C Chatterji, M A, S N Bhattacharya, M A, G P Mehta, M A, J N Prasad, M A *Maths*—P Prasad, M A, B Sc, S Pande, M Sc, Gorakh Prasad, M Sc, Badrinath Prasad, M Sc *Pers*—Mirza M M Husain *Philos*—P B Adhikari, M A, A C Mukerji, M A, I Tewari, M A, B L Atreya, M A *Phys*—P K Dutt, M A, N K Sethi, D Sc, U S Asiani, M Sc, N K Pande, B Sc, C M Sogani, M Sc, P C Ghose, M Sc; K L Tewari, B Sc *Religion*—P N Patankar, M A (also in Marathi), H R Pande, B A. *Sansk*—N Bhattacharya, M A, R Prasad-Shastri, B Nath, M A *Hindi*—S Das, B A, and 2 others *Bengali*—Harihar-Shastri

COLLEGES OF ORIENTAL LEARNING AND THEOLOGY Principals O L—Maha Pandit Pramathanatha Tarkabhusana, Theol—Pandit Prabhu Datta Agnihotri 17 other Profs

TEACHERS' TRAINING COLLEGE. Principal, Pandit C. M. Sukul, M A., L T. 3 Assts.

ENGINEERING COLLEGE. Principal and Prof. of Mech E—C A. King, B Sc, A R C Sc. Other Profs L D Counselant, B Sc, B C Chatterji, B A, B Sc, B.L., A M I E E., R S Jain, B Sc, A M I E E., R D Gulatti,

B Sc 6 Asst. Profs. and a Demr Arrangements were made in 1922 for holding at the College examns of the City and Guilds of London Institute.

LAW COLLEGE Hon Profs Sir Tej Bahadur Sapru, M A , LL D , K C S.I , M. L Agarwala, B Sc , LL D , K N Katju, M A , LL D , A P Dube, B C L , Munshi M Prasad, M A , LL B , P N. Sahru, M A , LL B , Barr -at-Law , Shankar Saran, B A Ox , Barr -at-Law , A N Sanyal, B A., LL B. Lond , K N. Malaviya, M A , LL B , Abdul-Hamid, B A , LL B , Bansidhar, B A , LL B , Wali Ullah, M.A., B C L , LL D

UNIVERSITY OF BOMBAY

CHANCELLOR—THE GOVERNOR OF BOMBAY

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—SIR CHIMANLAL
H SETALVAD, Kt, B A, LL B, LL D

REGISTRAR—KHAN BAHADUR FARDUNJI M DASTUR, M A

GENERAL INFORMATION (v. also p. 474)

Founded in 1857, the Univ. has concerned itself mainly with examinations and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in History, Economics, Philosophy, Sanskrit, and Persian. In 1919 it established a School of Economics and Sociology for research in these subjects. University buildings, costing Rs. 8,13,000 were completed in 1923.

LIBRARY (established 1864, owing to Premchund Roychund Benefaction, Rs. 4,00,000), 24,000 vols, including Fawcett Collection (Econ.)

FACULTIES Arts, Science (including Agric. and Engin.), Law, Medicine

DEGREES B A, M A, B Sc, M Sc., B Com, LL B, LL M, M B, B.S.; B.Hy., M D, D Hy, M S, B Ag, B E (Civ, Mech, Elec), M C.E.

RECOGNITION of examns of other Univs, Intern Arts and Sc examns of other Indian Univs and London

FEES for Univ. post-grad courses, Rs. 5 each

RESIDENCE. Board and lodging at Colleges generally from Rs. 40 to Rs. 70 p m

SCHOLARSHIPS FOR GRADUATES In Sanskrit, Bhugwandass Purshotumdass, Rs. 514; Law, Sir Mangaldas Nathubai, Rs. 1000 p a for 3 yrs, Travelling Fellowship, Rs. 700 p a. for 3 yrs. for Hindus; Technical educn in England for Hindus, Rs. 2000 p.a. for 3 yrs., Springer Research Scholp Lectureships Wilson Philological, Rs. 750 (6 cold weather lectures), Bhagranlal Indrajī, Rs. 1000 (6 lectures on Indian Epig., etc.)

INSPECTION OF SCHOOLS applying for recognition for purposes of the School-Leaving examn. is arranged for by the Joint Examn Board

PUBLICATION. *Calendar* (March), vol 1 Rs. 3, vol 11. (examn pp) Rs. 2.

UNIVERSITY SCHOOL OF ECONOMICS & SOCIOLOGY

Director and Professor of Sociology and Civics—Patrick Geddes. Asst Prof.—S. N. Pherwani, M A

Prof of Economics—K T Shah, B A., B.Sc. Lond. Asst. Prof.—C. N. Vakil, M.A., M.Sc. Lond.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, Gujarat Coll (Govt). In Arts Principal—W. G Robertson, M A., B D Aberd Profs. *Bot*—W T. Saxton, M A Camb. *Chem*—D D. Kanga, M A *Engl. and Logic*—B N Seal, B A Camb *French*—P. L. Charlier, B A *Hist*—M S. Commussariat, M A *Maths*—V. M. Gartonde, M A *Physics*—V B Divatia, B A Camb, M A *Sansk*—K V. Abhyankar, M A 14 other Lectrs, etc

BARODA, State College In Arts, in Science for B Sc Principal—A B. Clarke, B A Camb Profs *Biol*—S V Sheode, B Sc *Chem*—K. G Naik, M A, M Sc *Engl*—The Principal; S L Joshi, A M Col., A. X Soares, M A, LL B *Hist and Pol Econ*—K H Kamdar, M A *Logic and Mor Philos*—A K. Trivedi, M A, LL B *Maths*—Gajanan G. Pendse, M A, B Sengupta, M A *Calc*, B L *Pers*—Syed Nawab Ali, M A *Phys*—S. G. Burrow, B Sc Lond *Sansk*—Bhaster R Arte, M A. 6 other Lectrs, etc

BHAYNAGAR, Samaldas State College. In B A courses. Principal, and Prof. of *Engl & Hist*—T K Shahani, M A. 8 other Profs, etc

BOMBAY, Elphinstone Coll (Govt) In Arts, in Science for B Sc Principal, and Prof of *Engl Lit*—A L. Covernton, M A Ox Other Profs *Engl*—C J Sisson, M A. Edin, E A Wodehouse, M A *French*—L Peltier, B A, B Sc Paris *Hist and Pol Econ*—S G Panandikar, M A, Ph D Lond, G B Jathar, B A Camb, M A Edin *Logic and Mor Philos*—J C P D'Andrade, M A *Maths*—K R Gunjikar, M A. Camb *Pers*—A K S Shaikh, M A *Sansk*—A B Gajendragadkar, M A, C J J Fox, Ph D, B Sc Lond., Principal & Prof of *Chem*, Royal Sc Inst *Chem*—A. N Meldrum, D Sc Aberd *Physics*—G R Paranjpye, M Sc 18 other Lectrs, etc

BOMBAY, Grant Medical College (Govt) In Med and in B Sc courses Dean of the College—Major B Higham, M B, I M S Other Profs *Anat*—Y G Nadgir, M S *Bact*—D A Turkhud, M B, C M *Biol. and Med Jurisprudence*—W Nunan, M D *Chemistry*—The Dean of the College. *Mat Med and Pharm*—Lt-Col E F G Tucker, M B, B S, M R C P. Lond, I M S, S K Engineer *Midw and Dis of Women and Children*—Major A F Hamilton *Operative Surg.*—Lt-Col T S Novis, F R C S, I M S. *Ophth*—Major G McPherson, M A., M B, C M, I M S *Phys*—J A D'Souza, B A., L M, and S *Physiol, Histol, and Hygiene*—Capt S L Bhatia *Surg*—A K Dalal, F R C S. 8 others.

BOMBAY, Government Law School In Law Principal, and Prof. of *Jurispr*—B J Wadia, M A, LL B, Barr-at-Law Other Profs N M Patvardhan, Barr-at-Law, P. K Pendse, M A, LL M., D. G. Dalvi, M A., LL B; Y N Nadkarni, B A, LL B, P B Vachha, B A., LL B, M K. Mehta, B A, LL B, V. G Rao, B A, LL B, V. S. Bhandarkar, LL B, B. K Dhurandkar, LL B

BOMBAY, St. Xavier's College (S J). In Arts; in Science for B Sc Principal, and Prof. of *Botany and Zool*—E. Blatter, Ph D Other Profs. *Biol*—J P Mullan, M A., J. F d'Almeida, B Sc. *Chem.*—J. F. Carus, S S. Dastur, M A, R N. Bhagwat, M A, B Sc. *Engl. Lit*—J Devine, F. C. Afonso, M A, C D. Pinto, M A *French Lit.*—W. A. Phillips *Hebrew*—E. M Ezekiel, B A. *Hist*—N N Lalla, M A; A C. Fernandez, M A. *Logic*—M Sola, M A, Ph D., Asst. Prin. *Latin*—V. Gimenez. *Maths.*—K G Datar, M A. *Phys*—A. Steichen, Ph D.; K. V. Joshi, M A. *Sansk.*—R. Zimmermann, Ph D; K. M. Shembavnekar, M A. 12 Lectrs.

BOMBAY, Wilson College (U.F. Church of Scotland). In Arts, in Science for B Sc Principal, and Prof of *Engl and Philos*—J McKenzie, M.A. Aberd. Other Profs *Biol*—Vinayak N Hate, B Sc *Chem*—A R Normand, M.A., B.Sc., Ph.D. Edin., A E Walden, B Sc *Econ*—J Kellock, M.A., B.D. *Engl Lit*—E A Parker, M.A., Ph.D. *French*—V G Rao, B.A., LL.B. *Hist, Engl, Lat*—R Strachan, M.A., B.D. Aberd. *Maths*—J McLean, M.A., B.Sc. Aberd. *Pers*—M Ahmed, M.A. Calc. *Philos and Hist*—P A Wadia, M.A. *Phys*—H R Hamley, M.A., B.Sc., D B Naik, M.A., B.Sc., LL.B. *Sansk*—Hari D Velankar, M.A. 15 Asst Profs

BOMBAY, Cama and Allbless Hospitals In Midwifery courses for the M.D.

BOMBAY, Sydenham College of Commerce and Economics In Arts for B Com Principal, and Prof of *Econ and Econ Hist.*—M. L. Tannan, B Com Birm. 7 Profs.

BOMBAY, Government Secondary Training College In Arts for the B.T. degree Principal, H A. Sadarangani, M.A., and 3 other Lectrs

BOMBAY, Municipal Laboratory In Chem. courses for the B Hy examn.

DHARWAR, Government Karnatak College In Arts Principal, and Prof of *Engl and Philos.*—H V Hampton, M.A. Dub. Other Profs *Engl and Hist*—N S Takakhav, M.A. *Econ*—S G Beri, M.A. *Sansk*—V G Bhat, B.A. Camb., R G Bhadkamkar, M.A. *Maths*—C P Saldanha, M.A. *Logic and Philos*—A D Dhopeswarkar, M.A., LL.B. 7 Lectrs

JUNAGADH, Bahauddin College In Arts Principal, and Prof of *Engl Hist, and Pol Econ*—S H Hodivala, M.A. Other Profs *Engl*—K L Oza, M.A. *French*—C F Saldanha, M.A. *Logic and Mor Philos*—Harilal M Bhatt, M.A. *Maths*—Narayan B Pendse, M.A., LL.B. *Pers*—Aga Abdul Rahimkhan *Sansk*—Mahadev M Joshi, M.A. *Science*—Vasudev S Ghurye, M.A. 5 Lectrs

KARACHI, Dayaram Jethmal Sind College In Arts, in Science for B Sc Principal, and Prof of *Engl*—S. C Shahani, M.A. Other Profs *Biol*—M G Punvani, B.A., M.B. *Engl*—T M Advani, M.A., LL.B. *Engin*—Motiram H Advani, L.C.E. *Hist*—D T Mariwalla, M.A. *Philos*—G G Kewalramani, M.A., LL.B. *Maths*—T P Trivedi, M.A., LL.B. *Pers*—Hotchand M. Gurbaxani, M.A. *Phys and Chem*—Suratram B Butani, M.A., B.Sc. *Sansk*—Hari Laxman Lagu, B.A. 5 other Teachers.

KOLHAPUR, Rajaram College (State) Principal, and Prof of *Hist and Econ*—Balkrishna, M.A. Panj., Ph.D. Lond. 13 other Profs, etc

POONA, Deccan Government College In Arts. Principal, and Prof of *Engl and Hist*—H G Rawlinson, M.A. Other Profs *Engl*—H Hamill, B.A. Belf. *Hist and Econ*—B K Thakore, M.A., R P Patwardhan, B.A. Ox. *Logic*—Shankar Gopal Sathe, M.A. *Pers*—N D Minocherhomji, B.A. *Sansk*—S K Belvalkar, Ph.D. Harv., M.A. *Maths*—D. D. Kapadia, M.A. 7 other Teachers

POONA, Fergusson College In Arts, in Science for B Sc Under the control of the Deccan Educn Soc Principal, and Prof of *Physics*—K R. Kanitkar, M.A., B.Sc. Other Profs *Bot and Zool*—Dhundiraj L Dixit, B.A. *Chem*—G. B Kolhatker, M.A. *Engl and Sansk*—V G Paranjpe, M.A., LL.B. *Engl*—Ganesh H Kelker, B.A. Camb., M.A. *German*—Krishnaji K Joshi, M.A., Ph.D. Wurz. *Hist and Pol. Econ*—Hon Vaman G Kale, M.A. *Hist*—S. R. Kanitkar, M.A., V. N. Kumbhare, M.A. *Logic, etc*—V K Joag, M.A. *Maths*—V. B. Naik, M.A. *Pali*—P. V. Bapat, M.A. *Pers*—Mahomedkhan Munshi. *Philos*—N G. Damle, M.A. *Phys and Chem*—Mahadeo K. Joshi, M.A. *Sansk-Shastri*—Wasudeo S Abhyankar. 15 other Teachers

POONA, *Government Agricultural College* In B Ag. courses Principal, and Prof of *Agric*—J. B Knight, M Sc Mass *Bot*—W Burns, D Sc. Edin *Chem and Geol*—D L Sahasrabudde, M Sc, M Ag *Mycology*—G S Kulkarni, M Ag *Entom*—R S Kasargode, B Sc. 18 other Teachers

POONA, *Government College of Engineering* In Engin (Civ and Mech) courses Principal, and Prof of *Civil Engin*—W L C Trench, B Sc, B A I Dub, A M I C E Other Profs *Struct Design*—H P Jordan, M Sc *Elec Engin*—P C Dani, M A *Engin*—C Graham Smith, O B E, A C G I, A M I C E *Chem and Geol*—G G Narke, M A Calc, M Sc Manc *Mech Engin*—Kirpal Singh, B Sc Lond, A C G I, D I C, A M I C E, A David 18 other Teachers

POONA, *New Poona College* In Arts Under control of Shikshana Prasarak Mandal Principal, and Prof of *Phys and Maths*—N M Shah, M A Camb Other Profs *Econ and Hist*—R P Sabnis, M A Camb. *Engl and Sansk*—R D Karmarkar, M A *Engl*—R K. Lagu, M A *Philos*—N G Naralkar, M A, L T, V P Patwardhan, M A 10 other Teachers

SANGLI, *Willingdon College* In Arts Under control of the Deccan Educn Society Principal, and Prof of *Logic and Moral Philos*—G C Bhate, M A 8 other Profs

SURAT, *Sarvagani College* In Arts Under control of Gujarat Educn. Soc Principal, and Prof of *Engl*—V K Rajvade, M A 14 other Profs

THE YEAR 1922-23

BENEFACTIONS. Sir Pherozezshah M Mehta Research Scholarship, Rs 18,000

CHANGES IN REGULATIONS The presentation of an original thesis has been made an avenue through which the M C E degree can be reached The B A Compulsory English course has been so revised as to include study of Shakespeare and modern English Literature

NEW AFFILIATIONS The Secondary Training College, Bombay, for the purposes of the B T degree

NEW BUILDINGS were completed in Jan 1923 at a cost of about Rs 8,13,000.

NUMBER OF STUDENTS who presented themselves for degree exams. and (in brackets) those who took degrees B A, 1104 (667), LL B, 502 (299), M B, B S, 408 (149), B Com, 55 (30), B Sc, 151 (86), B Ag, 45 (38), B E, 81 (48), Higher degrees, 97 (55)

UNIVERSITY OF CALCUTTA

CHANCELLOR—THE GOVERNOR OF BENGAL

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—BHUPEN-
DRANATH BASU, M.A., B.L.

PRESIDENT, POST-GRADUATE COUNCILS—The Hon Sir ASUTOSH
MOOKERJEE, Kt, C.S.I., M.A., D.L., D.Sc., Ph.D.

REGISTRAR—J. C. GHOSH, M.A.

CONTROLLER OF EXAMINATIONS—RAI BAHADUR A. C. BOSE, M.A.

INSPECTOR OF COLLEGES—H. C. MOOKERJEE, M.A., Ph.D.

UNIVERSITY PROFESSORS, September 22, 1923

Agriculture [G. P. Singh Prof
Ganguli, N. N., B.Sc. Illinois

Art : Indian Fine Arts
Tagore, A. N., C.I.E., D.Litt
Bageswari Prof

Botany
Agharkar, S. P., M.A., Ph.D.
Sir R. B. Ghosh Prof
Bruhl, P. J., D.Sc., I.S.O., F.C.S.,
F.G.S. Prof

Chemistry
Ray, Sir P. C., Kt, C.I.E., D.Sc.,
Ph.D., F.C.S.
Sir T. N. Palit Prof
Mitter, P. C., M.A., Ph.D. Berl
Sir R. B. Ghosh Prof
Sen, H. K., M.A., D.Sc. Lond
Sir R. B. Ghosh Prof of
Applied C.

Mookerjee, J. N., D.Sc. Lond
G. P. Singh Prof

Economics [Minto Prof
Banerjee, P. N., M.A., D.Sc. Lond

English [Prof.
Stephen, H., M.A., D.D., Ph.D.

*History and Culture, Ancient
Indian* [Carmichael Prof
Bhandarkar, D. R., M.A., Ph.D.

Law [Tagore Prof
Garner, J. W., M.A., Ph.D.

Mathematics
Cullis, C. E., M.A., Ph.D., D.Sc.
(Higher M) Hardinge Prof
Mookerjee, S. D., M.A., Ph.D.

Prof
Sen, N., D.Sc. (Applied M)
Sir R. B. Ghosh Prof

Mental and Moral Science
Radhakrishnan, S., M.A.
George V. Prof
Haldar, H. L., M.A., Ph.D.

Prof
Philology, Comparative
Taraporewala, I. J. S., B.A.,
Ph.D. Prof

*Phonetics, Indian Linguistics
and*
Chatterjee, S. K., M.A., D.Litt
G. P. Singh Prof

[Palit Prof
Physics
Raman, C. V., M.A., D.Sc.
Bose, D. M., M.A., Ph.D.

Sir R. B. Ghosh Prof
Ghosh, Phanindranath, M.A.
Ph.D.

Sir R. B. Ghosh Prof. of
Applied P

Saha, M. N., D.Sc.
G. P. Singh Prof

Zoology
Mitra, K., B.A. Prof.

UNIVERSITY LECTURERS 13, of whom 4 are Univ Extension Lectrs

POST-GRADUATE TEACHERS IN ARTS. *Economics*, 18; *English*, 18; *History*, including *History and Culture*, *Ancient Indian*, 43, *Indian Vernaculars*, 23; *Mathematics*, *Pure*, 11; *Pali*, 13; *Persian and Arabic*, 7, *Philology*, *Comp*, 4; *Philosophy*, 16; *Psychology*, *Expl*, 8, *Sanskrit*, 22, *Anthropology*, 9, *Commerce*, 14

POST-GRADUATE TEACHERS IN SCIENCE *Botany*, 3; *Chemistry*, 5; *Geology*, 3, *Mathematics*, *Applied*, 8; *Physics*, 8, *Physiology*, 2, *Zoology*, 5

UNIVERSITY LAW COLLEGE Principal—S C Bagchi, B A, LL B, LL D Vice-Principal—B M Majumdar, M A, B L. Professors *C P Code and Evidence*—Birajmohan Majumdar, M A, B L, and 3 others *Crim L*—Haraprasad Chatterjee, M A, B L, and 3 *Equity*—The Principal and 3 *Hindu L and Const. L*—J P Sarbadhikary, M A, B L, and 7 *Internat L*, *Private*—P Chaudhury, M A *Jurispr and Roman L*—Karunamay Basu, M A, B L, and 7 *Land Laws*—S C Datta, and 3 *Real Property, Contracts and Torts*—S M Bose, LL B, Barr-at-Law, and 7 *T P Act, Mahom, and Pers L*—J. W Chippendale, M A, B L, and 6.

GENERAL INFORMATION (v. also p. 474)

Founded in 1857, this Univ has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909 In 1917 a new scheme for post-graduate teaching came into operation under which all students who desire instruction in the M A or M Sc courses in Calcutta must be registered in the Senate House as Univ. students A Commission under the Presidency of Sir Michael Sadler, K C S I, appointed by the Govt of India in Sept 1917 to inquire into the condition and prospects of the Univ. and consider the question of a constructive policy, presented a comprehensive report and a series of important recommendations in March 1919 Teaching in all the subjects for the B Com examn and undergraduate classes in Arabic, French, Pali, Persian, and Tibetan, and an annual course of lectures on "*The Poverty Problem*" are provided by the Univ.

Government grants from 1912 to 1922 amounted to Rs 34,00,000, including Rs 3,66,000 for endowment of chairs, and Rs 13,20,000 for Hostels and a Students' Mess Scheme During the same period private benefactions amounted to Rs 46,73,000

The Univ buildings (expenditure on which from 1912 to 1922 amounted to Rs 28,00,000) include a Senate House, completed in 1872 at a cost of Rs 4,35,000, the Durbhanga LIBRARY (85,000 vols) with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ Press, and Examn. Halls and Lecture Rooms LABORATORIES (in Univ Coll. of Science): *Phys and Chem* (Pure and Applied), *Applied Maths*, *Expl. Psych*, *Biol*, *Agric*, *Indian Fine Arts*

FACULTIES Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan).

DEGREES, ETC. B A, M A, Ph D, B Sc, M Sc, D Sc, B.Com.; L T, B T, B L, M L, D L; M B, M D, M S, M O, D P H; B.E., D Sc. (Engin)

STUDENTS' WELFARE A committee of medical experts deals with all matters relating to the health of students, including physical education and

organization of games and other forms of recreation Military Training is provided for a Univ Corps recruited from affiliated colleges At the Hardinge Hostel for Law students the monthly charges amount to from Rs 23 to Rs 25

RESEARCH STUDENTSHIPS, ETC Premchand Roychand, Rs 1400 p a for 3 yrs, awarded annually, 1 in Lit and 1 in Science subject, Sreegopal Basu-mallik (fellowship), Rs. 1200 p.a for 3 yrs in Vedanta Philos; Durbhanga, Rs 600 in Med, Sir R B Ghosh, Rs 900, 8 annually to Science students to be attached to the Sir R. B G Profs, Guruprasanna Ghosh, 1 annually, tenable for 3 yrs in Japan (Rs 1000) or Europe or America (Rs 2000) by Bengal Hindus, Palit, Rs 1,00,000 endowment for research or investigation out of India; Sir R B Ghosh Travelling Fellowships (3), Rs 2,50,000 endowment for research or investigation out of India for 1 yr, Jubilee post-graduate scholarships in literary and scientific subjects, Rs 32 p m for 2 yrs, one in each subject of the Honours B A and B Sc exams, Sir P C Ray, annual prize for research in Chemistry, by a graduate student of the Univ. working in the College of Science, gold medal (value Rs 100) and Rs 500 in cash, Sir B K Bose, annual scholarship of Rs 40 p m for a graduate student of the Univ College of Science Numerous other scholarships, medals, and prizes

PUBLICATIONS *Calendar*, *Calcutta Review*, quarterly, with monthly supplements, annual subsn, Rs 7 inland, Rs 10 foreign, *Journals* of Depts of Letters and of Science, Rs 9 per vol, *Bulletin of Math Society*

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[M A, etc = Affiliated up to M A, etc, standard Except for the Calcutta Scottish Churches and Hetampur Colleges corrections of these staff lists were not received in 1923]

BANKURA, *Wesleyan College* B A Principal—E J Thompson, B A Lond. Vice-Principal—A R Spooner, B A Lond 11 other Teachers

BARISAL, *Brojomohan Institution* B A Principal, and Prof of *Engl Lit.*—N L Mukerjee, M A, K P Ghosh, M A, acting 18 other Teachers

BELGACHIA, *Carmichael Medical College* M B. Principal—M N Banerjee, B A, M R C S Lond Profs *Anat*—M N Bose, M B, C M Edin *Physiol*—S P Niyogi, M Sc, M B *Mat Med*—P Nandi, M D *Midw*—K N Das, C I E, M D *Surg*—M Mitra, M D, F R C S Edin *Med*—B C Roy, M D, M R C P, F R C S *Jurispr*—Lt-Col N P Sinha, I M S (retd) *Hvgiene*—T N Majumdar, D P H 29 other Teachers

BERHAMPUR, *Krishnath College* B A and B Sc Two years' course for Diploma in Commerce Principal—N G Leather, M A Camb 40 Profs and other Teachers

BHOWANIPUR, *South Suburban College* Principal, and Prof of *Econ.*—Panchanan Sinha, M.A., B L. 18 other Teachers

CALCUTTA, *Bangabasi College* B A and B Sc Principal—G C. Bose, M.A., M R A C., M R A S 38 Teachers.

CALCUTTA, *Bethune College* (Girls) B A Supported by Govt Principal—Miss G. M Wright 13 Teachers.

CALCUTTA, *City College*. B.A and B Sc. Principal, and Prof of *Engl Lit.*—Herambachandra Maitra, M.A. Vice-Principal, and Prof. of *Maths.*—K. P. Chattoraj, M.A. 44 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B T. Acting Principal, Prof. of *Hist of Educn*—Chintaharan Chakravarti, M.A., B T. Other Profs. Binayabhusan Sarkar, B A, B T, K. B Hore, M.A., B T.; Banabilas Ray, M A, B T., G. C Das-gupta, B A, B T.

CALCUTTA, *Diocesan College* (Girls) B A, B T Principal—Sister Mary Victoria. 19 Teachers

CALCUTTA, *Loreto House* (Girls) B A Established 1842 Connected with Univ since 1889 Principal—Provincial Superioress of the Loreto nuns in India 8 other Teachers

CALCUTTA, *Medical College of Bengal* M B Principal, and Prof. of *Medicine*—Lt.-Col. F. A F Barnardo, C I E, C B E, M D, F R C S E, I M S Other Profs *Anat*—N Pan, M B. *Anat and Physiol*—Major J A Shorten, I M S *Bot and Zool*—Asst Surg E N Ghosh *Chem*—Lt.-Col J C Boyd, I M S *Dentistry*—J E Gill, L D S *Hygiene*—C A Bentley, M B, D P H *Mat Med and Clin Med*—Lt.-Col D McCay, M D, M R C P, I M S *Med Jurispr*—Major N P Sinha, I M S (ret) *Midw*—Lt.-Col Leicester, I M S *Ophth Med and Surg*—Lt.-Col W V Coppinger, M D, F R C S, I M S *Path*—Capt G Shanks, M D, I M S *Physics*—Tulsidas Kar, M A *Surgery, Principles of*—Lt.-Col F P Cannon, D S O, F R C S, I M S; *Surgery, Clin and Operative*—Lt.-Col R P Wilson, F R C S, I M S 29 other Teachers

CALCUTTA, *Presidency College* B A and B Sc Maintained by Govt Number of undergrads limited to 650 Principal—J. R Barrow, M.A., Prof of *English Literature* Other Profs J W Holme, M A Liv, M Ghose, B A Ox, T S Sterling, M A, Praphullachandra Ghosh, M A, Sri Kumar Banerjee, M A, Bhupendrachandra Basu, M A, B B Ray, M A, acting *Geology*—H Crookshank *Ment and Mor Philos and Logic*—Adityanath Mukherjee, M A., Ph D, Khagendranath Mitra, M A.; R. K. Datta, M A *Hist*—K Zachariah, B A, Binaykumar Sen, M A, U. N. Ghoshal, M A *Pol Econ. and Pol Philos*—J C Coyajee, B A, LL B, Panchanandas Mukherjee, M A, D G Chattoraj, M A *Sansk, Pal, and Bengali*—Nilmani Chakrabarti, M A, Harihar Banerjee, M A, S P Bhattacharyya, M A *Arabic and Pers*—Md Sonaulah, M A, A K. H Siddiq, S-ul-U Hedayat Hossain *Maths and Astron*—C E Cullis, M A, Ph D, D N Mallik, B A, Sc D, Saradaprasanna Das, M A, J M Bose, M A, B Sc Edin, Karunamay Khastgir, M Sc, H C Sengupta, M A *Phys*—E P Harrison, M A, Ph D, P C Mahalanabis, B A, B Sc *Chem*—Jyotibhushan Bhaduri, M A, F C S *Physiol*—S C Mahalanabis, B Sc, N C Bhattacharyya, M A, B Sc *Botany*—S C Banerjee, M A, S C Sinha, M A 25 Assts and Demrs

CALCUTTA, *Ripon College*. B A, B Sc, B L *Law Dept* Principal—S. C Chaudhuri, M A, LL B. Camb, Barr.-at-Law. Profs. J N. Kanjulal, M.A., D L, Gangadhar Mukerjee, B L. 9 other Teachers.

College Department Principal, and Prof of *Engl*—N Raye, M A Vice-Principal, and Prof of *Engl*—R N Ghose, M A 33 other Teachers

CALCUTTA, *St Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Number of students limited to 250 Acting Principal, and Prof of *Lit*—E C Dewick, M A Camb Acting Vice-Principal, and Prof of *Engl*—H M Grindon, M A Camb and Lond 15 other Teachers

CALCUTTA, *St Xavier's College* (S J) B A., B Sc. Students of other religious persuasions are admitted. Rector—J Fallon, S J. 31 Teachers

CALCUTTA, Sanskrit College B A. Principal, and Prof. of *Sanskrit*—Asutosh Sastri, M A Other Profs Maha P N. Tarkabhushan (*Hindu Law*), A C Bose, M A (*English*), K D Banerjee, M A (*History*), M. N. Sarkar, M A, Ph D (*Philos and Logic*) 14 other Teachers

CALCUTTA, Scottish Churches' College B A and B Sc Formerly the General Assembly's Institn and Duff Coll Principal, and Prof of *Chem*—J. Watt, M.A., D.D, F.C S Other Profs · *Engl*—J C Scrimgeour, M A ; A. Cameron, M.A., J D Sinclair, M A, B D , M K Mookerjee, M.A. *Philos. and Logic*—W S. Urquhart, M.A., D Litt , G Ewan, M A, Ph.D , P C Sen, M A , S P Biswas, M A *Econ*—B B Dasgupta, M A , N. C Bhattacharyya, M.A *Maths*—G S Mill, M A , B Sc , M S Sarkar, M A , A C. Ganguli, M Sc , B B Mandal, M Sc *Sansk*—B L Banerjee, M A. , K P Mookerjee, N L Vidyabinod *Physics*—N C Ray, M A , R. K De, M A , B Sc *Chem*—B. C Dutt, M A, FCS , R. N Chatterjee, M A *History*—M L Sarkar, M A , A. C Sen, M A 10 other Teachers

CALCUTTA, Univ. Law College, v. supra.

CALCUTTA, Vidyasagar College (formerly Metropolitan Institn) B A and B Sc Principal—Saradaranjan Ray, M A Vice-Principal, and Prof of *Engl Lit*—J. R Banerjee, M A , B L 41 other Teachers

CHITTAGONG, College (Govt) B A and B Sc Principal—H C Banerjee, M A , B L , offg , and Prof of *Phys* 22 other Teachers

COMILLA, Victoria College B A Principal and Prof. of *Engl Lit.*—Satyendranath Basu, M A 12 other Teachers

COOCH-BEHAR, Victoria College B A Principal, and Prof of *Maths*—Upendranarayan Sinha, M A 14 other Teachers

DAULATPUR, Hindu Academy. B A Principal—Dwijapada Banerjee, M A. Vice-Principal—B B Bhattacharyya, M A 21 other Teachers

FARIDPUR, Rajendra College B A Principal—K N Mitra, M A 10 other Teachers

GAI HATI, Cotton College (Govt) M A in English (partially) , B A and B Sc Principal—F W Sudmersen, B A Lond Profs. of *Engl* R C Goffin, M A Lond , Praphullachandra Ray, M A , Asutosh Chatterjee, M A , S K Bhuyan, M A. ; B K. Kakati, M A Prof. of *Physics*—D E. Roberts, M A *Chem*—D Thomson, M A , B Sc , Ph D *Maths*—R K Barat, M A *Philos*—R R Thomas, M.A *Sansk*—Padmanath Vidyabinod *Arabic and Persian*—S Md Mahibullah, M A 12 other Teachers

GAUHATI, Earle Law College (Govt) Principal—J. Barooah, Barr -at-Law- Profs T. R Phookun, Barr.-at-Law , Satyanath Bara, B L , S N Chakravarti, M A , B.L

HETAMPUR, K C College B A Principal—D D. Dutt, M.A , M.R.A S. Profs T B. Chekrabarti, M A , B C Sengupta, M A , D M Kavyatirtha, and others

HUGHLI COLLEGE. B.A and B Sc. Maintained by Govt Principal, and Prof. of *Hist.*—R. B Ramsbotham, M.B.E , M A. Ox. 18 other Teachers

KRISHNAGAR COLLEGE (Govt). B A and B Sc. Principal—Egerton Smith, M A. 20 other Teachers.

MIDNAPORE, Midnapore College B.Sc. Principal—H C Sanyal, M A , B.L 11 Teachers.

MYMENSINGH, *Anandamohan College* B.A. Principal—Jajneswar Ghosh, M A, Ph.D. 22 Teachers

RAJSHAHI, *Government College*. B.A. and B.Sc Principal, and Prof of *Phys.*—Rai Kumudnikanta Banerjee, Bahadur, M A. 32 other Teachers

RANGPUR, *Carmichael College*. B A. Principal, and Prof of *Engl.*—N. Mookerjee, M A. 14 other Teachers

SERAMPORE COLLEGE (chartered in 1818 by the King of Denmark. Grants a B D degree which is accepted as equivalent to Calcutta B A. as qualifying for post-graduate courses in most subjects Bishops' College, Calcutta, is affiliated to it) B A Principal, and Prof of *Engl. and Hist.*—G Howells, M A, B D, B Litt, Ph D Vice-Principal, and Prof of *Philos.*—J Drake, B A, B D 21 other Teachers

SIBPUR, *Bengal Engineering College* (Govt) B E Principal—..... Profs *Civil Engin.*—T H Richardson, B A, B A I Dub, M I C E Irel *Elec Engin*—W H Everett, B A, B E, R U I, M I M E, M I E E (on deputation); B C Gupta, offg *Mech Engin*—R Wolfenden, M B E, M Sc *Mining*—E H Robertson, B A, M Sc Birm, M I E E., F G S *Phys and Maths*—A Macdonald, M A, B Sc Glas, S N Maitra, B A Camb, A. R C S. Lond (acting) *Chem*—W Saunders, B Sc Lond 26 other Teachers

SYLHET, *Murarichand College* (Govt) B A Principal—A C Datta, B A Camb 17 Teachers

THE YEAR 1922-23

To meet a growing demand for instruction in vocational and scientific subjects in the High Schools, a rule was made requiring candidates for the matriculation examn to have received training under an approved teacher in at least one such subject, as Agriculture, Carpentry, Smithy, Typewriting, Spinning and Weaving, Music, Domestic Economy, Motor Engineering, and Drawing.

STUDENTS Total number at the various examns in 1922 34,120

DEGREES CONFERRED in 1922-23 B A, 2020 (including 36 women), M A, 392 (1 woman), B Sc, 346, M Sc, 86, D Sc, 2, B L., 535, M B, 156 (2 women), B E, 12, B T, 39 (7 women), Ph D, 5 Honorary LL D, Prof. J W. Garner

UNIVERSITY OF DACCA (BENGAL)

VISITOR—H.E THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H E THE GOVERNOR OF BENGAL

VICE-CHANCELLOR—P J HARTOG, C.I E , M A , B Sc

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M A

TEACHING STAFF, September 20, 1923

Arabic and Islamic Studies

Khan, F A , M A Calc
Ag Head of Dept
Wahhab, A A , M A , B.L Reader
Israeli, Saadat Ulla Lectr
Ali, Munawar Lectr
Khalid, A U , M.A B L Lectr
Samsamuddin Lectr
i Asst

Chemistry

Ghosh, J C , D Sc Calc Prof
Sircar, A C , M A , Ph D Calc
Reader
Niyogi, M N , M Sc (Analytical
C) Reader
De, R L , M Sc Calc Lectr
Guha, P C , M Sc Calc Lectr
4 Asst Lectrs and i Asst

Commerce

Junnarkar, P B., M A , LL B
(Accountancy and Business
Organization) Reader
i Asst

Economics and Politics

... .. Prof
Aiyer, S V , M A Mad Lectr
Banerjee, D N , M A Calc Lectr
Saha, K B , M A Calc Lectr
Dam, M L , M A Calc Lectr
Hussain, A., M A Calc Lectr
i Asst.

Education

West, M. P , B A Ox
Hon Reader and Head
of Dept
4 Hon. Teachers

English

Wrenn, C L., M A Ox Prof
De, S K , M A , B L , D Litt
Lond Reader
Chaudhury, S K , M A Calc Lectr.
Guha, P K , M A , B L Calc
Lectr
Hasan, M , M A Calc Lectr
Nag, U C , M A Calc Lectr
Roy, B K , M A , B L Calc Lectr
Chanda, S M , M A Calc Lectr
Roy, S R , M A Lectr
i Asst

French and German

. . . Lectr

History

Majumdar, R C , M A , Ph D
Prof
Rahman, A F , B A Ox Reader
Banerjee, S C , M A Calc Lectr.
Bhattacharyya, S N , M A Calc
Lectr
Mukherjee, P C , M A Calc Lectr
i Teaching Student.

Law

[Prof
Sen-Gupta, N C , M A , D L Calc
Das-Gupta, J N , M A , M L
Calc Lectr
5 Part-time Lectrs and an Asst

Mathematics

... .. Prof
Basu, N M , D Sc Calc
Reader (Acting Head of
Dept)
Ghosh, N C , M A Calc Reader.
Ganguly, D N , M A Calc Lectr.

Ghosh, J, M A Calc Lectr
 Sircar, H, M Sc Calc Lectr
 Dutt, H N, M Sc Calc Lectr
 1 Asst

Persian and Urdu

Khan, F A, M A Calc Reader
 Burhanuddin, F M Lectr
 Azad, S M Z H, B A Lectr
 1 Asst

Philosophy

Langley, G H, M A Lond Prof
 Bhattacharyya, H D, M A Calc Reader
 Roy, S C, B A Calc, M A Lond Reader
 Bhattacharyya, U C, M A Calc Lectr

Gupta, U N, M A Calc Lectr.
 2 Assts

Physics

Jenkins, W A, M Sc Sheff Prof
 Bose, S N, M Sc Calc Reader
 Ghosh, S N, M A Calc Reader
 Guha, B C, M Sc Calc Lectr
 6 Asst Lectrs

Sanskrit

Shastri, Maha H P, C I E, M A. Prof
 Calc
 Chakravarti, S C, B A Calc Reader
 Basak, R G, M A Calc Lectr
 Bhattacharyya, G P, M A Calc Lectr
 Shahidullah, M, M A Calc Lectr.
 1 Asst

ASSOCIATED INSTITUTIONS The Dacca (Govt) Training College The Principal and teachers are honorary teachers of the Univ and the College students read for the LT and BT in accordance with regns prescribed on that behalf

GENERAL INFORMATION (v. also p. 474)

This Univ was established in 1921 under an Act passed in 1920 which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine It is constituted in its main lines in accordance with the recommendations of a Committee presided over by Mr (now Sir Robert) Nathan in 1912 and by the Calcutta Univ Commission of 1917-19, presided over by Sir Michael Sadler The Report of this Commission states that "two main factors may be clearly distinguished in the origination of the Scheme first and foremost the desire of the Musalmans of Eastern Bengal to stimulate the educational progress of their community, and, secondly, the desire of the Govt of India to create a new type of residential and teaching Univ in India, as opposed to the present affiliating type To these must be added a third factor of especial importance, the desire of the Govt to relieve the congestion of the Univ of Calcutta" * Although special attention will be devoted to Islamic Studies and to the needs of the Musalman community, the Univ will be open to all, without distinction of sex, race, creed, or class It is a unitary and residential Univ, of which the constitution resembles in many respects that of the modern English universities The Authorities of the Univ include a Court, an Executive Council, an Academic Council, and Faculties, and the Teaching Staff has the main responsibility for all matters connected with teaching and exams The students (other than those living under specially approved conditions) reside in the Halls and Hostels situated in the Univ domain, and the Univ teachers also reside in the houses erected for them thereon The domain consists of about a square mile of fine park

* Chapter xxxiii. of the *Report* deals in great detail with the scheme for the Dacca Univ.

land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief existing buildings for teaching and administrative purposes include A Senate House with residential block, central buildings, containing about 200 rooms, which cover 117,000 feet of floor space used for Class-rooms and Library (at present utilized partly as a hostel for Muslim students), Chemical and Physical Laboratories, each including about 12,000 sq feet of floor space, and now being enlarged, the Curzon Hall (which accommodates about 2000 persons); the Dacca Hall buildings, with residential accommodation for 160 students, the Jagannath Hall buildings, providing for 200 students.

LIBRARY, 39,000 vols. **LABORATORIES** Physical, with metal and wood workshops, Chemical, with special arrangements for training in commercial analytic methods.

FACULTIES Arts, Science, Law.

ADMISSION The standard required for admission to courses leading to degrees is that of the Intermediate examn of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed are as follows for B A or B Sc ordinary, 2 yrs, with Honours, 3 yrs, M A or M Sc, 2 yrs, or in the case of a Dacca Honours B A or B Sc, 1 yr, B T or L T, 1 yr, M T, 3 yrs, B Com, 2 yrs, B L, 3 yrs (Dacca Honours B A, 2 yrs), M L, 3 yrs. The Ph D, D Sc, or D L may be taken by graduates of 4 yrs' standing, but graduates of other Univs must first pursue researches in this Univ for 2 yrs; published research work required.

SCHOLARSHIPS open to graduates 15 of Rs. 32 each p m.

FEES Tuition, per session for B A and B Sc course, Rs 96, M A, Rs 120, M Sc, Rs 144; Law, Rs 84, Registration, Re 1, Admission, Rs 5, Athletic, Rs 5, Students' Union, Rs 3. No fees charged from research students. **HOSTELS** Seat-rent varies from Rs 2 to Rs 4 p m, including cost of light, water, medical attendance, medicine and servants. Cost of food about Rs 12 p m.

TUTORIAL CLASSES have been organized for all the Depts of Study. All the teachers of the Univ are engaged on the work under the control of the Heads of the Depts and the Provosts.

THE YEAR 1922-23

NUMBER OF STUDENTS B A 379, B Sc. 159, B Com 56, M A 206, M Sc 43, Law 260, B T. 74, L T 4, Research 10, students of Dacca Medical School who read Physics and Chemistry in the Univ 139, total 1330.

BENEFACTIONS. Nawab Ali Stipend Fund (Rs. 16,000), and several small donations for prizes and scholarships.

UNIVERSITY OF DELHI

CHANCELLOR—H E THE GOVERNOR-GENERAL OF INDIA

PRO-CHANCELLOR—Hon KHAN BAHADUR MIAN SIR MUHAMMAD SHAFI, D Litt, LL D, K C S I, C I E, Bar-at-Law

VICE-CHANCELLOR—H S GOUR, M A, D Litt, D C L, LL D, Bar-at-Law

RECTOR—Rev Canon F J. WESTERN, M A.

TREASURER—K C ROY, C I E

REGISTRAR—G M D SUFI, M A

CONSTITUENT COLLEGES St Stephen's, Hindu, Ramjas

TEACHING STAFF, November 1923

(U) denotes University Reader, (S), (H), (R) denote St Stephen's, Hindu, Ramjas Colleges respectively

<i>Arabic</i> [(S) (U)]		Chakravarti, M K, M A (Engl)
Abdur-Rahman, Munshi Fazil,		(R)
Maulvi Fazil (A and History)		Das-Gupta, A, M A (Engl) (H)
<i>Biology</i> [(U) (R)]		Keswani, L D, M A. (Engl) (R)
Ahluwalia, Gopalji, M Sc.		Monk, F F, M A Ox (S)
Balkishan Das, M Sc (H)		Sen, S K, B A Ox (H)
<i>Chemistry</i>		Shahani, M S, M A Ox (H)
Bain, Miss A M, M A, B Sc.		Sharp, C H C, M A Ox (S)
Aberd (U) (H)		Thadani, N V, M A (Engl)
Mitra, J N, M Sc (S)		(U) (H)
Sant Ram, M Sc (C and Physics)		Young, C B, M A Ox (Engl and
(R)		Philos) (U) (S)
Seth, R B, M Sc (U) (H)		Qanungo, K R, M A (Hist)
<i>Civics</i>		(U) (R)
Williams, Rushbrook, M A,		Rai, G, M A (Hist) (H)
D Litt Hon Prof		Young, P N F, M A Camb
<i>Economics</i>		(U) (S)
De, K. C, M A (Ec, Engl, and		<i>Mathematics</i>
Philos) (U) (R)		Bannerji, A T, M A (U) (H).
Hirde Narain, M A (Ec and		Jain Permanand, M.A. (S)
Philos) (H)		Mukerji, S K, M A Panj, B A
Nag, K. C, M.A. (U) (S)		Camb (U.) (S)
<i>English and History, v. also</i>		Ram Behari, M A (S)
Arabic, Ec		Sitaram, M A (R)
Bali, H. C, M.A (Engl) (H)		Sri Ram, M A. (H)
Capron, R S, B A Camb. (S).		<i>Persian</i>
		Ali, Syed Azhar, M.A, M O L,
		Munshi F. (S).

Piyare Lal, Munshi F	(R)	Khub Ram, M.A	Panjab, M Sc
Verma, A N, M A	(U) (H)	Leeds	(U) (S).
		Sant Ram, M Sc	(R)
<i>Philosophy</i> , v also Ec, Hist		i Demr	
Mitra, C C, M A, B L	(H)	<i>Sanskrit</i>	
Sen, N K, M A	(U) (S)	Har Naran, Shas, Mahamahopadya	(U) (H)
<i>Physics</i> , v also Chem		Lachhmi-Dhar, M A, M O L,	(U) (S)
Chabra, B D, M Sc	(H)	Shas	(R)
		Krishna-Lal, M A	

GENERAL INFORMATION (v. also p. 474)

The three constituent colleges, formerly affiliated to the Univ of the Panjab, were united to form a teaching and residential Univ (Govt of India Act, No VIII of 1922), with effect from May 1, 1922. The authorities of the Univ are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn Examn. As a temporary measure, it admits students who have passed the matricn examns of other Indian Univs, but will after 5 years admit only those who have passed the Intermediate (Arts or Science) examn.

DEGREES B A, B Sc, M A, M Sc, Ph D, D Litt, LL D

AVERAGE HOSTEL EXPENSES, Rs 20 p m

THE YEAR 1922-23 Honorary Degrees conferred on Lord Reading (LL D.), Sir Mohd Shafi, H S Gour. *Number of Students*, 865

UNIVERSITY OF LUCKNOW

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH

VICE-CHANCELLOR—G N CHAKRAVARTI, RAI BAHADUR, I S O, M.A., D M, LL B

TREASURER—Prof SAHEBZADA SAID-UZ-ZAFAR KHAN.

REGISTRAR—MAJOR T F O'DONNELL, B A

COLLEGES AND DEPARTMENTS

KING GEORGE'S MEDICAL COLLEGE Principal—Lt-Col C A Sprawson, C I E, M D, B S Lond, F R C P, I M S Maintained by the Univ.

CANNING COLLEGE (Arts and Science) Principal, M B Cameron, M A, B Sc Lond. Maintained by the Univ

ISABELLA THOBURN COLLEGE (Women's) Principal, Florence L. Nichols, M A Boston

DEPARTMENT OF COMMERCE Head of Dept, S N Mukerji, B Sc, F S S A Lond

LAW DEPARTMENT. Head of Dept, Pt J N Chak, B A. Ox, Barr -at-Law.

PROFESSORS, LECTURERS, ETC., September 1, 1923

KING GEORGE'S MEDICAL COLLEGE

Anatomy

Said-uz-Zafar Khan, Sahebzada,
M B Edin, D T M Liv Prof
Goil, Capt J H, M B, B S All
Lectr

2 Demrs

Materia Medica & Med Jurispr

Vyas, B N, R B, M B Reader
Modi, J P, L R C P & S E,
L F P & S G Reader

1 Demr

Medicine

The Principal Prof
Pramanick, R D, B Sc, M B,
B S Lectr (*Anæsthetics*)
Sahai, H, M. B, B S. Panj. Lectr

Obstetrics and Gynæcology

Hunter, Lt.-Col T, M.A., B Sc,
M D Glas, I. M S Prof

Siret, Miss A, M B Calc
Resident Surgeon Demr.

Ophthalmology

Acharya, B G S, B A, M B,
C M Madras, L R C P Lond,
M R C S Eng, D O Ox Prof
Misra, C P, L M S. Panj. Lectr.

Pathology

Stott, Major H, O B E, M D,
B S, M R C P, D P H Lond,
I M S Prof.
Mukerji, Capt. J G, L M S Panj
Reader.
Abdul-Hamid, Mohd, M B, B S.
All. Lectr
1 Demr

Physiology

Burridge, W, M A, D M, B Ch.
Ox, L M S.S.A Lond. Prof

Mathur, S N., M.B., B.S. All. Lectr
i Demr

Public Health [Prof.
Pandya, D D., L R C P. & S E.,
L F P & S G, D P.H Camb

Surgery

Nutt, Lt-Col H R, M D Lond.,
F R C S, I M S Prof
Nigam, K S., M.D. All, F.R.C.S.
Eng, D T M Lond Lectr

CANNING COLLEGE (ARTS AND SCIENCE)

Arabic

Ahmad, Kamal-uddin, Sh -ul-u,
M A Calc, I E S Reader
Khahl, Mohd Ben Arab Lectr

Botany

Sahni, Birbal, M A Camb, D Sc
Lond. Prof
Chaudhury, H P, M Sc Panj
Lectr

Mukerji, S K, M Sc All Lectr
i Demr

Chemistry

MacMahon, P. S, M Sc Manc,
B Sc Ox Prof
Gupta, B M, M Sc All, Ph D
Lond, D I C Reader
Sane, S M, B A, B Sc All, M A,
Ph D Berlin, F C S Reader
Raman Nayar, M, B A Madras
Lectr

Economics

Mukerji, R K, M A, Ph D Calc
Prof
Mukerji, B B, M A, B L Calc
Reader
Dey, H L, M A Calc Lectr
Mukerji, D P, M A Calc. Lectr

English

Brown, C J, M A Ox Prof
Sidhanta, N. K, B A. Camb, M A.
Calc Reader
Nixon, R H, M A Camb
Reader
Roy, F T, M A All Lectr
Pinto, F T, B A, LL B Camb
Lectr
Roy, C G, M A All. Jr Lectr
Bhattacharya, A J, M A „
Amir-Ali, Syed, M A, B L. Calc
Jr. Lectr.

History

Smith, S B, M A. Ox.
Prof (European H)
Mukherji, R K, M A, Ph D
Calc Prof (Indian H)
Banerji, S, M A, L T All Lectr
Dey, J C, M A Calc Lectr

Mathematics

[Prof
Strang, J A, M A, B Sc Edin
Narayan, Lakshmi, M A All
Reader
Banerji, S, M A Calc Lectr

Modern European Languages

Keightley, B, M A Camb, Barr -
at-Law Hon Reader

Persian

Rahman, M B, M A Panj, Ph D
Camb Reader
Nurul-Aziz, Moulvi Md, M A All
Lectr
Abdul Qari Fani, Md, M A All
Lectr
Fiqar, B N Lectr
Rizvi, M H Syed, B A All
Jr Lectr (Urdu)

Philosophy

Cameron, M B, M A Glas, B Sc
Lond Prof
Cornelius, J J, B A Ohio, M A
Harv, S T B Bost Reader
Ahmad-Shah, E, M A. All, B Litt
Ox Lectr

Physics

Wah, Mohammed, M A, Ph D.
Gott, I E S Prof.
Deodhar, D B, M Sc All
Reader.
Roy, S N, B A., M Sc All
Lectr.

Banerji, B B, M Sc All	Lectr	<i>Zoology</i>	
i Demr		Bahl, K. N., D Sc. Panj, D Phil	
<i>Sanskrit</i>		Ox	Prof
Iyer, K A Subramanya, M A		Thapar, Sardar Govind Singh,	
Lond	Reader	M Sc Panj	Lectr
Shastri, B N, M A All	Lectr	Mathur, L P, M Sc Benares	
Thakur, A D, M A All	Lectr		Lectr
Bhatt, B N, B A All Jr	Lectr	i Demr	

ISABELLA THOBURN COLLEGE (WOMEN'S)

<i>Economics</i>		<i>Latin</i>	
Reddick, Miss O I, M A Columbia		Manchester, Miss R C, M A. Bryn	
Reader.		Mawr	Reader
<i>English</i>		<i>Persian</i>	
Dimmitt, Miss M A, B A, De		Baij-Nath-Fiqar, Munshi	Lectr
Paulw	Reader	<i>Philosophy</i>	[Reader
		Moore, Miss E, M A, L T.	

DEPARTMENT OF COMMERCE

Mukerji, S N, B Sc, F.S S A Lond	Reader
Chatterji, B. N., M.A., B L. Calc.	Reader
Dubey, D S, M A, LL B All	Lectr
Pant, D., B Com. Bom	Lectr.

LAW DEPARTMENT

Readers (Part-time):

Chak, Pt J N, B A Ox, Barr -	Banerji, J. K, M A., LL B All
at-Law	Hajela, K S, M Sc, LL B All,
Husain, Hyder, B A Ox, LL B,	LL M Bom
Dub, Barr -at-Law	Hasan, Ghulam, B A. Panj., LL.B.
Misra, J N, B A, LL B Camb,	All.
M A, LL D Dub, Barr -at-	
Law	

GENERAL INFORMATION (v. also p. 474)

This residential and teaching Univ was established under an Act of the Provincial Legislature passed in Nov 1920 The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties

FACULTIES. Arts, Science, Commerce, Medicine, Law.

ADMISSION Qualifications for Degree courses Arts or Science—the Intermediate Examn of an Indian Univ., Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of Allahabad or of the Panjab, Med—Degree in Science of Cal., Mad, Bom, All, or Panj taken with Biol as one of optional subjects, or, subject to certain conditions, the P Sc Examn. of All, Alg., Benares, or Interm Board of Ed, U P

DEGREE COURSES for B A, B Sc, B Com, 2 yrs.; M A., M Sc, 2 yrs.; LL.B, 2 yrs.; M.B, B S, 5 yrs. The lectures are supplemented by tutorial

work, each student being assigned to a tutor who gives him personal attention and guidance in his course of study.

FEES for tuition for full course B A , Pass, or B Com , Rs 216 , B A Hons , Rs 324 , M A , Rs 270 , M B , B S , Rs 544 , B Sc Pass, Rs 252, Hons , Rs 378 , M Sc., Rs 300 , LL B , Rs 240

SCHOLARSHIPS for Graduates The Univ. provides 6 of the value of Rs. 30 p.m each , Canning College, one of Rs 100 and three of Rs 30.

RESIDENCE Students are required, unless specially exempted, to live in hostels.

ADULT EDUCATION. A system of public lectures by members of the staff and others has been started.

THE YEAR 1923

NUMBER OF STUDENTS in Arts 250, Science 117, Med 170, Law 250, Comm 52

UNIVERSITY OF MADRAS

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF MADRAS

VICE-CHANCELLOR—The Rev E MONTIETH MACPHAIL, M A , D D ,
C B E

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION

REGISTRAR—F DEWSBURY, B A , LL B

UNIVERSITY PROFESSORS, September 9, 1923

<i>Indian History and Archæology</i>	<i>Indian Economics</i>
Rao Sahib S Krishnaswami	John Matthai, B A , B L , B Litt ,
Aiyangar, M A , Ph D (Calc)	D Sc Prof
	T K Duraiswami Aiyar, M A ,
	L T Asst Prof

GENERAL INFORMATION (v. also p. 474)

This Univ, founded in 1857, has hitherto been mainly an examining body, but has, since 1912, maintained a small teaching staff and organized special lectures by persons eminent in Arts and Science in Europe and India, and in 1923 an Act was passed for reorganizing it as a Teaching and Residential Univ., while enabling it to continue to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ include a Senate, Syndicate, Academic Council, Faculties, and Boards of Studies, and a Council of Affiliated Colleges.

From the Govt of India the Univ receives an annual grant of Rs 65,000, and has received, in addition, non-recurring grants amounting during the years 1913 to 1923 to Rs 7,00,000. During the same period endowments amounting to Rs 91,000 were received.

FACULTIES Arts, Science, Law, Medicine, Engineering

ADMISSION The Matricn examn has been almost completely superseded by the School-Leaving Certif scheme.

DEGREES, ETC B A , B Sc , B A (Honours), B Sc (Honours), M A , Ph D , M Sc , D Sc , B Sc.Agr , L T , B L , M L., LL D., M.B., B.S, L M S., B.San Sc , M D , M S. , B E. , M O L (Oriental Learning).

DIPLOMAS Titles in Oriental Learning (4 yrs.' course) ; Economics (full-time course—1 yr, part-time—3 yrs). **CERTIFICATES** of Proficiency in Oriental Learning (2 yrs')

For the B.A (Honours) an extra yr. of study is required.

RECOGNITION of examns of other Univs is not granted in general terms. The Syndicate deals with each application on its merits.

FEES for Univ examns. range from Rs 12 for matricn to Rs. 100 for higher degrees.

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs 50 p m, for Indians, Rs. 30 A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed

RESEARCH STUDENTSHIPS, tenable 3 or 4 yrs, value Rs 100 to Rs. 200 p m

PUBLICATIONS *Calendar* (Jan)—vol i, Administration, Regns., Syllabuses; vol. ii, Affid Colls, Endowments, Graduates *Annual Report Minutes*

AFFILIATED COLLEGES RECOGNIZED IN DEGREE COURSES

Arts and Science

ALWAYE, Union Christian College. Principal—A M Varki, M A, B L

ANANTAPUR, Ceded Districts College Principal—A Arulanantham, B A. Ox.

CHIDAMBARAM, Sri Minakshi College Principal—K A. Nilakantasastrī, M.A.

HYDERABAD, Nizam College. Principal, and Prof of Hist—K. Burnett, M.A. Ox.

KUMBakonam COLLEGE (Govt) Principal—Rao Sahib P. Rajagopala Aiyar, M.A.

MADRAS, Christian College Supported by the Church and U F Church of Scotland and 5 other Missionary Societies Principal—W Meston, M A, B D Professors · *Chem*—E Barnes, B Sc *Engl Lang and Lit*—F W Henderson, M.A, G Matthews, M A., B Litt., R. A L Haworth, B A, W L Campbell, B A, K C Macartney, M A, W Meston, M A, B D, J Mulyil, B A *Hist*—F E Corley, M A, J N Anderson, M A *Maths*—E B Ross, M A. *Ment and Mor Sc*—A G Hogg, D Litt, A J Mackenzie, M A, A S Woodburne, M A, B D, Ph D. *Phys Sc*—A Moffat, M A, B Sc, LL D *Nat Sc.*—D. W Devanesan, M A, Ph D 29 other Teachers

MADRAS, Muhammadan College (Govt) For Muhammadans. Principal and Lectr in *Engl*—E W Green, M A

MADRAS, Pachayappa's College For Hindus Principal, and Prof. of Hist—M. Ratnaswami, M.A, Barr-at-Law 34 other Teachers.

MADRAS, Presidency College (Govt) Principal, and Prof of *Engl*—H S. Duncan, M A Other Profs. *Bot*—M O Parthasarathi Ayyangar, M.A, L T. *Chem*—W. Erlam Smith, M A Ox, B B Dey, D Sc Lond, F I C *Econ*—J Matthai, B Litt Ox, D Sc Lond, B L *Engl*—H S Duncan, M.A., H. C Papurth, M.A.; S E Ranganathan, M A, L T *Geol*—H. Narayana Rau, M.A. *Hist*—M A Candeth, B A., LL B Camb. *Maths*—K Ananda Rao, B.A. Camb *Ment. and Mor. Sc*—A. Chakravarti, M A, L.T. *Physics*—Savoor, S. R U, B Sc Lond, B.A. Camb., M. C. S Anantapadbanabha Rao, M A., L T. *Math. Phys*—P. V. Seshu Aiyar, B A., L T. *Sansk.*—S. Kuppaswami Sastri, M A *Zool*—K Ramunni Menon, M.A. Camb. 35 other Teachers

MADRAS, Queen Mary's College. Principal—Miss de la Hey. 10 other Profs. and Lecturers.

MADRAS, Women's Christian College Principal, and Prof. of *Engl.*, etc.—

Miss E McDougall, M A. Vice-Principal, and Prof. of *Phys.*—Miss E. M. Coon, M A, Ph.D.

MADURA, *American College* (Mission) Principal, and Prof of *Engl*—W W Wallace, M.A., B D Vice-Principal—Peter Isaac, B.A., L T. Prof. of *Engl*—James M. Hess, M A., B D *Hist and Econ.*—A J. Saunders, M A *Phys*—E M. Flint, M.A, B.Sc 19 other Teachers.

MANGALORE, *St Aloysius' College* (S J) Principal—Rev L Proserpio, S J, M A, D D 22 other Teachers

MANNARGUDI, *Findlay College* (Wesleyan Mission) Principal, and Prof of *Engl*—R Smales, M A Camb 12 other Teachers

MASULIPATAM, *Noble College* (Church Miss Soc) Govt annual grant. Ag Principal—J Roystrock, M.A, B D Vice-Principal—A. B Johnston, M.A 17 Profs, etc.

RAJAHMUNDRY, *Government College* Principal, and Prof. of *Engl.*—N. R. Krishnamma, B A 26 other Teachers

TRICHINOPOLY, *St Joseph's College* (S J). Open to all creeds and classes, but primarily for R C 's Rector—P Carty Principal—F Bertram. Profs *Engl*—C Leigh *Bot. and Phys*—E Gombert *Chem*—A. Hass. *Org Chem and Zool*—F J. Carus *Econ*—P Carty *Engl*—H J Quinn *Hist*—A Saldanha and J Steenkiste *Maths*—C Pruvôt *Phys*—D Honoré, P E Subrahmanya Aiyar, M A *French*—J Bourdot *Latin*—G Foreau *Polit Sc.*—J Castets 30 other Teachers

TRICHINOPOLY, *S P G College* Principal and Warden, and Prof of *Engl*—A. F Gardiner, M A 27 Profs. and Lectrs

TRIVANDRUM, *Maharaja's College* (Govt) Principal, and Prof of *Appl Maths. and Physics*—J Stephenson, B Sc, A R C Sc Lond 29 other Teachers.

VIZIANAGRAM, *Maharaja's College* Principal—K Janaki Rao, B A, L T

Teaching

MADRAS, *Teachers' College* (Govt) Principal—R G Grieve, M A. (on leave) R. W Ross, B A (acting)

MADRAS, *Lady Willingdon Training College* Principal—Miss J. M Gerrard, M A

MADRAS, *Missions Training College for Women Graduates* Principal—Miss A B Van Doren, B A

TRIVANDRUM, *Training College* (Govt) Principal—G F. Clark, M.A, Ph D (on leave). K. P. Ukkandan Unni Nair, M.A., L.T (acting). 7 other Teachers

Law

MADRAS, *Law College.* Principal—A Davis, M.A, Barr-at-Law. Profs. : C. Kunhiraman, B A, B L, Barr-at-Law, K Subrahmanya Pillai, M.A, M L 6 Asst Profs

TRIVANDRUM, *Maharaja's Law Coll* (Govt.). Principal—H. S. Chatfield, M.A, Barr-at-Law Senr Profs—E J. John, B A, B.L.; M. K. Govinda Pillai, B.A, B.L. 5 other Teachers

Medical

MADRAS, *Medical College* (subject to the authority of the Surg-Genl. with the Govt. of Mad.). Its certifs are recognized by the Colls. of Surgs. of Eng.,

Scot, and Irel Women students are admitted free Principal, and Prof of *Med*—Lt-Col F F Elwes, C I E, M D, I M S Other Profs *Anat*—Rao Sahib T Sundara Reddy, F R C S I *Hyg*—Lt-Col R B B Foster, M B, D P H, I M S *Mat Med*—M R Guruswami Mudaliar, M D *Med. Jurispr.*—Lt-Col Dewan Ganapat Rai, I M S *Midw*—Major C A F Hingston, I M S *Ophth*—Capt P Verdon, I M S *Path*—Major W L Forsyth, I M S *Physiol*—Major G E Malcomson, M D., D P H, I M S *Surg*—Lt-Col E W C Bradfield, O B E, I M S *Biol.*—Major K Gopinath Pandalai, I M S *Chem*—Major C Newcomb, I M S 32 Lectrs and Assts

Engineering

MADRAS, *College of Engineering* Principal—C L Cartwright, M I Mech E, A M I C E, M I E E Profs *Civil E*—G Nagarathnam Aiyar, B A, B E, K C Chakko, D Sc (Eng) Lond *Mech E*—M K Ranganatham *Elec E*—H B Mathews, M I E E *Maths*—K R Ramaswami Aiyangar, M A, L T *Technical Chem*—S N Dhar, D Sc Lond, M Sc Calc 25 Instructors

Agriculture

COIMBATORE, *Agricultural College*. Principal—R C Wood, M A. (on deputation), F R Parnell, M A (Ag), and 16 other Profs and Lecturers.

Oriental Learning

One Sanskrit College in Madras and sixteen in other towns are recognized as qualified to provide instruction for the Oriental Titles

THE YEAR 1922-23

BENEFACTIONS Rs 9100 for Prof B. H. Rao Scholarship in Maths.

NEW BUILDINGS Plans for new (Rs. 12,00,000) Library buildings were completed

CHANGES OF POLICY AND REGULATIONS, v *supra*—General Information Ph D and D Sc degrees were instituted Academic year divided into 3 terms in all Affiliated Colls except Medical and Engineering

NEW AFFILIATIONS St Francis Xavier's College, Palamcottah, and Theosophical Coll, Madanapalle, in Intermediate courses, Missions Training Coll for women graduates, Madras, in L T courses

RESIGNATION. Dr Gilbert Slater

DEGREES B A., 1250 (52 women), B A (Hons) and M A, 77 (2 women), B L, 232, M L, 8, L T, 177 (12 women), M B, B S, 17 (1 woman), L M S, 30, B E, 20

STUDENTS admitted to Univ courses of study (full-time), 4062, including 138 women, part-time (Dipl in Economics), 34 Two graduates holding special scholarships carried on research work in Cambridge, London, and St Andrews

UNIV. EXTENSION work included 2 courses in Sanskrit, 1 in Mental and Moral Science, 1 in Maths, 3 in Botanical subjects Vacation course in Maths in Madras and 4 other centres arranged for teachers of high schools and colleges.

UNIVERSITY OF MYSORE

CHANCELLOR—H H THE MAHARAJA OF MYSORE

PRO-CHANCELLOR—H H SRI NARASIMHA RAJA WADIYAR, G C I E.,
Yuvaraja of Mysore

VICE-CHANCELLOR—BRAJENDRA NATH SEAL, M A , Ph D , D Sc

REGISTRAR—V. SUBRAHMANYA IYER, B A

LIBRARIANS—N NARASIMHAMURTHI, M A , B L. , (Oriental L) R
SHAMA SASTRI, B A , Ph D.

CONSTITUENT COLLEGES

At Mysore

The Maharaja's College

The Maharani's Women's College

At Bangalore

The Central College

The College of Engineering.

PROFESSORS, ETC., December 1923

[M , W , C , E =at Maharaja's, Women's, Central, Engineering
College V = Visiting]

Archæology

Sastri, R Shama, B A , Ph D

[Director

Iyengar, N N , B A (Elec E)

Prof

4 Asst Profs , 2 Instructors

Botany (C)

Sampatkumaran, M A , Ph D Chic
1 Lectr , 1 Demr

[Prof

English

Mackintosh, A B , B A Ox , M A
St And Prof (M , W)

Rollo, J C , B A Ox , M A Glas
Prof (M , W)

Sell, F R , M A Ox Prof. (C)
McAlpine, E G , M A Edin.

Prof (C).

Hensman, Mrs S G , M.A

Prof (W).

Srikantia, B M , M A , B.L

Prof (M , W).

Annaji Rao, P S , M A , B L

Acting

2 Asst Profs , 4 other Teachers

French

Feuga, R , B A

Lectr (V , M , W)

Collart, Father Lectr. (V., C)

Geology (C)

Sampathiengar, P., M.A. Prof.
1 Lectr.

Chemistry

Usher, F L , B Sc Lond
Srinivasa Rao, M G , M A

[Prof (C)

Prof (C.)

3 other Teachers (C and E)

Commerce (M)

3 Teachers

Economics

Subba Rao, M A Camb , Barr -at-
Law (Principal) Prof (M)
2 Lectrs (W and E)

Engineering (E)

Ramaswami Iyer, S A , A C E ,
B E (Principal) (Civ. E)

Prof

Ramaswamy, E K , B Sc ,
A C G I (Mech E) Prof

Hindustani and Persian

Aga M Abbas Shoostry
Asst Prof (M).
2 Munshis (M., C)

History

Venkatesvara Ayyar, S V, M A,
L T Prof (M, W)
Krishnaswami Iyengar, S, M A,
Ph D
Prof (M) (Supernumerary)
Sri Rukminiamma, K D, B A
Prof & Supt (W)
2 Asst Profs (M, W), 3 Lectrs
and 1 Tutor

Kannada

Krishnappa, B, M A
Asst Prof (M)
1 Tutor (C), 2 Pandits (M, C)

Mathematics

Narayana Iyengar, M T, M A
Prof (C).
3 Asst Profs (C, E), 1 Lectr
(M), 1 other Teacher (C)

Philosophy (M)

Wadia, A R, B A. Camb, Barr -
at-Law Prof.
1 Asst Prof; 1 Lectr and 1
other Teacher

Physics

Metcalfe, E. P, B.Sc Lond.
(Principal) Prof (C).
Venkatesachar, B, M A
Prof (C)
Venkata Rao Telang, A, M A
Junr Prof (C)
1 Asst Prof. (C), 1 Lectr (C),
1 other Teacher

Sanskrit

[Prof (M).
Hiriyanna, M, M A, L T
1 Asst Prof (M), 1 Lectr (M),
4 Pandits (M, C)

Tamil and Telugu

4 Pandits (M, C)

Zoology (C)

[Prof
Narayana Rao, C R, M A, L T
1 Asst Prof, 1 other Teacher

GENERAL INFORMATION (v. also p. 474)

This Univ was founded in 1916 with two constituent Colleges, the Central Coll, Bangalore, and Maharaja's Coll, Mysore, which had for 25 yrs been affiliated to the Univ. of Madras. To these have since been added the Women's and Engineering Colleges. The executive government is vested in a Council of from 9 to 15 members, comprising the Vice-Chancellor, Inspr-Genl of Educn, Principals of Constituent Colls, Deans of Faculties, of Arts and Science, and member appointed by the Chancellor, or, if Govt so direct, elected by the Senate from among its members. The Senate is charged with the organization of instruction, etc. It consists of from 40 to 70 members, including the Council, the Univ Profs, and persons nominated by the Chancellor or elected with his approval.

LIBRARIES Univ, 11,000 vols, Colleges, 24,500, Sansk and Oriental, 11,500 vols. and 10,000 MSS

FACULTIES Arts, Science TFRMS Jan-April, July-Dec.

ADMISSION to B.A. or B.Sc courses is normally by Entrance examn in English, a second language, and either (a) Phys, Chem, and Maths or Nat Sc or (b) Hist., Logic, and Sansk. or Pers or Elem Econ. Candidates prepare for this by an *extra* yr. of study in Collegiate High Schools after completing the ordinary High School course. The Interm examn of any other Indian Univ is accepted as equivalent to the 1st yr. examn and qualifies for admission to the 2nd yr. class. Admission to the B.E. course is by the Entrance examn. with Phys., Chem., and Maths; to the B.Com course by the Entrance examn or corresponding examn of any other Univ. Graduates in Arts of other Indian Univs. are admitted to the M.A. courses provided they have passed

their degree examns. in cognate subjects. The B.A. and B.Sc. of other Indian Univs are recognized for the purpose of admission to the B.T. course.

DEGREE COURSES. 3 yrs —B A , B Sc , B Com ; 4 yrs —B.E (passed candidates will be eligible to take the degree after a year's practical course in a recognized firm), graduate course for M A.—2 yrs Courses for B T. (teaching) and M.Sc. not yet organized. The D.Lit and D.Sc are Honorary.

RECOGNITION OF DEGREES and examns. of other Univs (1) The B.A. Degree of other Indian Univs is deemed equivalent to the B A of this Univ. and admits to its M.A. courses, provided they have passed their degree examns. in cognate subjects (2) The B A or B Sc. of other Indian Univs is accepted for admission to the B T course. (3) The Intern. Examn of any Indian Univ =the 1st Year Certif Examn. of this Univ. and admits to the 2nd year B A or B Sc class under certain conditions. (4) The B.A., B.Sc , M.A , M.Sc , and B.L. of the Dacca Univ. =the corresponding degrees of this Univ and admit to corresponding privileges. (5) The degrees of the Lucknow Univ =the corresponding degrees of this Univ.

FEES for courses for Bachelorship, Rs. 60 p.a (B E., Rs. 100).

RESIDENCE Hostels at Colleges Cost of living ranges from Rs. 252 to 312 p a at Mysore, Rs 312 at Bangalore.

An APPOINTMENTS BUREAU is maintained.

INSPECTION OF SCHOOLS recognized by the Univ is done by Profs deputed by the Council

THE YEAR 1922-23

BENEFACTIONS received up to July 1923 brought the total endowment fund up to Rs 1,82,501

NUMBER OF STUDENTS Maharaja's College, 441 , Central, 455 , Maharani's, 6 , Engineering, 179

DEGREES CONFERRED B A , 101 , B Sc , 22 , B.Com., 10 , M A., 18 , B E , 15.

NAGPUR UNIVERSITY

CHANCELLOR—THE GOVERNOR OF THE CENTRAL PROVINCES

VICE-CHANCELLOR—RAI BAHADUR SIR B K BOSE, K C I E.

TREASURER—RAO BAHADUR V M KELKER

REGISTRAR—G G R HUNTER, M A Ox

COLLEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M) *

HISLOP COLLEGE, NAGPUR (H) *

ROBERTSON COLLEGE, JUBBULPORE (R) *

VICTORIA COLLEGE OF SCIENCE, NAGPUR (V) *

SPENCE TRAINING COLLEGE, JUBBULPORE (T) *

KING EDWARD COLLEGE, AMRAOTI (K) *

TEACHING STAFF, October 1923

<i>Arabic, Persian, and Allied Vernaculars</i>	Kale, V D, B Sc (H)
Aga-Hyder-Hasan, Syed, M A (History and Sanskrit also) (K)	Mardikar, P Y, M Sc (Physics also) (H)
Taqui, S G, M A (R)	<i>Economics</i>
Iqbal Hussain, Quazi Syed, M A (M)	Nanavati, M H, M A, LL B (Sanskrit also) (K)
Ghani, M A, M A (M)	Naidu, V S, M A (History and Sanskrit also) (R).
Paul, J N W, M A (English and History also) (R)	Prentice, J S, B A (History also) (H)
<i>Botany and Zoology</i>	Sen Gupta, A C, M A Edin (Sanskrit also) (M)
Pandit, B R, B Sc (H)	Dadacharji, B F, M A (Sanskrit also) (M)
Moghe, M A, M A, M Sc (Economics also) (H)	<i>Education</i>
Gour, Ramdeen, B Sc (H)	Macnee, E A, M A (T).
Mukerji, B, B A, B Sc Lond (Physics also) (K)	Ghosal, S C, B A, B Sc, LL B (T).
Buxy, T K, M A, F C S Lond (R)	Gokhale, S. H, M A (T).
Tamhankar, G R, M Sc (R)	Har Ram, B A (T).
Beckett, R H, B Sc Lond (V) Dean of Faculty	Tamaskar, G D, M A (T).
Godbole, S N, M Sc (V)	<i>English and other European Languages and History</i>
Surey, L S, M Sc (V)	Tostevin, F. P, M A Ox (K).

* (M), (H), etc symbols for reference to the Colleges.

Fernandes, T, M A	(K)	<i>Mathematics</i>	[(M).
Sells, A C, M A Ox.		Belekar, S B, M A (Sanskrit also)	
	(R) Dean of Faculty	Banerji, S B, M.A	(K)
Rowlands, W S, B A Ox		Mone, T V, M A (Sanskrit also)	
(Philos also)	(R)		(R)
Sheo-Prasad, M A (Sanskrit also)	(R)	Garde, G K, M A	(H)
		Dhar, S C, D Sc	(M)
Naolekar, N R, M A (Sanskrit also)	(R)	Agnihotri, G P, B Sc (Physics also)	(H)
Jwala Prasad, M A (Philos and Sanskrit also)	(R)	<i>Philosophy</i> , v also Engl	
Pande, K D, M A (Maths and Sanskrit also)	(R)	Ramanathan, P S, M A	(K)
Gardiner, T W, M A	(H).	Raju, J B, B Sc Ox	(M)
Bremner, J, M A (Philos also)		Mukerji, J N, M A	(M).
	(H)	<i>Physics</i> , v also Botany, etc	
Buel, R O, M A	(H)	De, M L, M A (Sanskrit also)	(R).
Hoyland, J S, M A	(H)	Matange, D G, M Sc	(R)
Gadre, B N, M A (Sanskrit also)	(H)	Owen, M, M Sc	(M)
		Deoras, R S, M Sc	(V)
Cheshire, F M, B A Camb	(M)	Thatte, V N, M Sc	(V)
Ranganatham, N, B A	(M)	<i>Sanskrit and Allied Vernaculars</i> ,	
Ganguli, N, M A	(M)	v also Arabic, Ec, etc	
Chordia, S, M A	(M)	Telang, H K S, M A	(K)
Narayan, Hirde, M A	(M)	Kher, G K, B A	(H)
Power, B L, M A (Sanskrit also)	(M)	Rampratap Shastri, M A	(M).
		Mirashi, V V, M A	(M)
Hunter, G R, M A Ox	(R)	Law	
Watchmaker, B K, M A (Sanskrit also)	(R)	Dick, G P, C I E, Barr -at-Law	
		Wazalwar, A V, B A, LL M	
		Ghosh, J C, B A, B L	

* (M), (H), etc symbols for reference to the Colleges

GENERAL INFORMATION

The University was established in 1923. The six colleges were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, Faculties of Arts, Science, and Law, and Boards of Studies. The Univ. does not hold a Matriculation Examin., but admits students who have passed (a) the Final Examin. of the Central Provinces Board of High School Education, or an examn. recognized (with the consent of the Govt.-Genl.) as equivalent thereto, (b) the Matric. Examin. of an Indian Univ.

OSMANIA UNIVERSITY, HYDERABAD, DECCAN

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G C S I, G C B E.

CHANCELLOR—NAWAB SIR FARIDOO N MULK BAHADUR, K C I E,
C. S I, C B E (President, Executive Council)

VICE-CHANCELLOR—NAWAB VALIND DAULA BAHADUR

PRINCIPAL OF UNIVERSITY COLLEGE—A SIDDIQI, M A All, Ph D
Gott

REGISTRAR—H A ANSARI, B A

CONSTITUENT COLLEGE—Osmania University College

PROFESSORS, ETC., October 25, 1923

<i>Biology</i>		Mohd Jamilur Rahman, M A
.....	Prof	Panj Asst Prof
		K C Roy-Saksena, M A All
<i>Chemistry</i>		Asst. Prof
.....	Prof	
Mahmood Ahmed Khan, B Sc All	Asst Prof	<i>Languages (Ancient and Modern)</i>
.....	Asst Prof	A Siddiqi, M A, Ph D Prof.
i Demr		..... Prof
		..... Prof
		..... Prof
<i>Economics</i>		Asst Profs
.....	Prof	Syed Ghulam Nabi (Arabic)
Mohd Ehas Burney, M A, LL B	Asst Prof	Abdul Hai (Arabic)
All		Syed Ibrahim (Arabic)
H Rahman-Khan, M A, LL B	Asst Prof	Syed Ashraf Shamsi (Persian)
All		Abdul Hamid Khan (Persian)
		Wahiduddin Salim (Urdu)
<i>English</i>		Syed Sajjad Husain, M A All
N G. Welinkar, M A, LL B	Prof	(Urdu)
Bom.	Prof	C N Joshi, M A Bom (Marathi)
H Ali-Khan, B A Ox	Prof.	T Rama Rao, B.A. Mad (Ka-
Speight, E E	Prof	narese)
Asst Profs		R Subba Rao (Telugu)
Syed Abdul Lateef, B A Mad.		Hari Har Shastri (Sanskrit).
S Hasan, M A All (acting)		..... (Sanskrit)
M Rahimuddin, M A Bom		
		<i>Law</i>
<i>History</i>	[Prof	Mahboob Ali, B A Ox Prof
Haroon Khan Sherwani, B A Ox		..... Asst Prof.
.....	Prof	Alam Ali Khan, B A, B C L Ox
Ibn-i-Hasan, M A. All	Asst Prof	Lectr

Mathematics
 Quazi Mohd Husain, M A Panj ,
 B A , LL B. Camb Prof
 Sh Barkat Ali, B A. Panj
 Acting Asst Prof

Philosophy
 Prof
 Khalifa Abdul Hakim, M A.,
 LL B. Panj. Asst Prof.
 Abdul Bari Ag Asst Prof
 Mutazid Wali-ur Rahman, M A
 Panj Asst. Prof
Physics [Prof
 Wahidur Rahman, B Sc Calc.
 Abdur - Rahman - Khan, B Sc
 Lond Ag Prof

Nasir Ahmed, M Sc. All Asst Prof.
 i Demr

Theology
 Manazir Ahsan-Gilani Asst Prof.

Faculty of Muslim Theology
 Prof.
 Asst Profs
 Abdul Qadeer (Islamic Law)
 Sher Ali (Philosophy of Islam).
 Mufti Abdul Lateef (Quran).
 Shah Mustafa Qadiri (Islamic
 Law)
 Abdul Wasay (Hadith)
 Syed Ahmed Husain (Logic)
 .. (Quran)

GENERAL INFORMATION (v. also p. 474)

The University was established by a Firman (Order) of H E H the Nizam, in April 1917, but actual tuitional work began in Aug 1919, with the opening of the College It differs from the other Univs. of India in that instruction throughout the college courses is imparted through the medium of Urdu, English being taught as a compulsory Second Language, while in other Univs the medium of instruction is English The Bureau of Translation which came into existence in Sept 1917 has provided in Urdu all books required for the Intern and B A exams The executive government of the Univ is in the hands of a Council consisting of 11 members. The organization of instruction rests with the Faculties and the Senate, which consists of from 40 to 60 members in addition to the Council, Univ Profs, and representatives of graduates and Faculties The Univ is entirely financed by the State at an annual cost of £52,500.

LIBRARY. 15,751 vols, 679 MSS The Staff have also access to the large Asafia Library.

BUREAU OF TRANSLATION Curator, Md Enayatullah, B A, 15 Translators, Assts and Advisers. Books published, 56; in preparation, 82

FACULTIES Arts (including Science), Law, and Islamic Theology Faculties of Education, Engineering and Medicine under consideration

TERMS July to Dec and Jan. to April

ADMISSION. The Univ. holds a Matricn examn in English, one addl. lang, Hist and Geog, Nat. Sc and Maths, but the Matricn. examns of other Univs, the Senior Oxford and Cambridge Local examns and the State H S L C examn are accepted as equivalent The B.A. and B D courses extend over 4 yrs. with an Intern examn at the end of 2 yrs The Intern examn. of other Indian Univs is accepted as equivalent to this. M.A and LL.B. courses cover each 2 yrs. after graduation, there being a "previous" examn. at the end of the first year.

FEES. Intern.—Rs. 60 p.a.; B.A.—Rs. 80 p.a.; M.A.—Rs. 100 p.a.; LL B.—Rs. 80 p.a.

RESIDENCE. 4 hostels attached to the College. Cost of living about Rs. 200 p.a.

THE YEAR 1922-23

Two Intermediate Colleges were opened, one at Aurangabad, and the other at Hyderabad. M.A Classes in Maths , History, and Languages, and LL B. Classes were started.

NEW POSTS. Profs. of History and of Maths , addl Prof. of English (Prof. Speight from Tokio)

RETIREMENT Amrit Lal Sil. DEATH Ch Barkat Ali.

NUMBER OF STUDENTS in Arts, 487 , in Theology, 13, and in Law, 40

THE UNIVERSITY OF THE PANJAB, LAHORE

PATRON—H E THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE PANJAB

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Hon Sir
JOHN MAYNARD, M A Ox, KCIE, CSI, ICS

DEAN OF UNIVERSITY INSTRUCTION—A C WOOLNER, M A Ox.

REGISTRAR—P N DUTT, B A, R B

JOINT REGISTRAR—ISHWAR DAS, M A, LL B

UNIVERSITY PROFESSORS, ETC, October 15, 1923

[(U.)=maintained entirely by the Univ]

<i>Arabic</i> , v also Persian		Hem Raj, M A	Lectr.
Md Shafi, B A Camb, M A		Samuels-Lal, P, M A	Lectr
	Prof (U)	Ganguly, A N, M A	Lectr
Sadr-ud-din, D Litt	Lectr	Dil-Muhammad, M A	Lectr
Asghar Ali, M O L	Lectr	Honeybourne, Miss D M, B A	Lectr
Najm-ud-Din	Lectr		

<i>Botany</i>		<i>Persian</i>	
Shiv Ram Kashyap, B A Camb,		Md Iqbal, M A, Ph D	
M Sc, Rai Sahib, I E S	Prof	Prof (U) (Arabic and	
Chaudhuri, H, D Sc	Reader (U)	Persian)	
Ghose, S L, M Sc	Lectr	Maitra, K M, M A Calc	Lectr
Mehr Chand Sethi, M Sc	Lectr	Fazl-i-Haqq, Q, M A	Lectr
<i>Chemistry, Physical</i>		Ismail, M, M A Calc	Lectr
Bhatnagar, S S, Ph D		Abdul Aziz, M	Lectr
	Prof (U).	Muhammad-Shirani	Lectr
	[Prof (U)].		

<i>Economics</i>		<i>Sanskrit</i>	
Myles, W H, M A Edin		Woolner, A C, M A Ox	
College Profs co-operating		P'pal, Oriental Coll (U)	
Sondhi, G D, M A, I E S		Lakshman-Sarup, M A, D Phil	
Brij-Narain, M A		Ox	Prof (U)
Wilson, J L, M A		Raghubar-Dayal, M A, M O L	
Lucas, E D, M A, D D			Lectr
<i>History</i>		Gulbahar-Singh, M A, LL B	
.....	Prof (U)		Lectr
		Sarkar, M K, M A	Lectr

<i>Mathematics</i>		<i>Zoology</i>	
Rao, C V H, B A Camb, M A		G Matthai, M A, I E S	Prof
	Prof (U)	Diwan Anand Kumar, M A Camb.	
Chowla, G S, M A Camb	Prof.		Reader (U).
Devi Dyal, B.A.	Lectr.	Bihari Lal Bhatia, M Sc	Lectr.
Das Gupta, S N, M A	Lectr		

UNIVERSITY COLLEGES

ORIENTAL COLLEGE, LAHORE. Principal—A. C. Woolner, M.A. Vice-Principal—Md Shafi, M A.

LAW COLLEGE, LAHORE. Principal—K. C Chatterji, B A, B.L., Vakil. Lectrs.—C. L. Anand, M.A., LL.B. Lond., Barr.-at-Law; Rahim Bux, M A, LL B 6 Part-time Lectrs.

GENERAL INFORMATION (v. also p. 474)

Established in 1882, the University confined its activities, until recently, mainly to examinations, the control of affiliated institutions, and the provision of instruction in its Oriental and Law Colleges. It has since 1919 undertaken the maintenance of Professors and Readers and co-ordination of higher teaching in other subjects. Honours Schools in Arabic, Sanskrit, Botany, Zoology, and Maths, and post-graduation teaching in Economics have been instituted in Lahore; and senior teachers in the local colleges, partially relieved of routine work, have supplemented the teaching of Univ. Profs. and Readers. To stimulate and guide advanced students a number of distinguished *savants* were induced to visit the Univ. and teach in it for periods of from 6 months to a year.

LIBRARY, 45,000 vols. (arranged on Dewey Decimal system). **CHEMICAL LABORATORY** **ASTRONOMICAL OBSERVATORY**

FACULTIES Oriental, Arts, Law, Medicine, Science, Agriculture, Commerce.

DEGREES. B.A., M.A, D.Lit; B Sc, M Sc, D Sc.; B Sc (Agr), M.Sc. (Agr), LL B, LL D., LL M, MB, BS, MS, MD, BT; (in Oriental Learning) B O L, M O L, D O L.

Diploma in Commerce (2 yrs' course) In the Faculty of Oriental Learning a 2 yrs' course from Matric leads to an Intern examn, and further courses of 2 yrs., 1 yr., and 2 yrs. to the B O L., M O L., and D O L successively. Examns are also held for Proficiency, High Proficiency, and Honours in Arabic, Sanskrit, and Persian. Honours admit to the Oriental titles Maulvi Fazil (Arabic), Shastri (Sanskrit), and Munshi Fazil (Persian); and High Proficiency to Maulvi Ahm, Visharada, and Munshi Ahm. Similar examns are held in Urdu, Hindi, Panjabi, and Pashto.

The B.T. is open to any one who after graduating in any faculty other than the Oriental has undergone a 1 yr course at an Affiliated Training Coll, or any trained S A V graduate teacher not less than eighteen months after his passing the S A V examn.

RECOGNITION OF OTHER INSTITUTIONS An equivalent examn of any recognized Univ. may be accepted in lieu of Intern Arts or Science, B A. or B Sc, for the purposes of admission to a higher examn.

SCHOLARSHIPS FOR GRADUATES Several of from Rs 20 to Rs 25 p m for 2 yrs. in Oriental Studies, Arts, and Science. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science.

RESIDENCE. Undergraduates in Lahore Arts Colleges are ordinarily required to reside in College Hostels or in hostels recognized by the Univ.

PUBLICATION. *Calendar*, in two Parts (Sept.), Rs. 5/8/0 and Rs 5 respectively.

AFFILIATED COLLEGES RECOGNIZED IN DEGREE OR DIPLOMA COURSES

[B.A., M.A., etc.—A., B., C., E, Ec, G, H, M., Ph., Ps, S., Z. —Affiliated up to B.A., M A., etc in Arabic, Botany, Chemistry, English, Economics, Geology, History, Maths, Philos., Physics, Sanskrit, Zoology]

Medical

LAHORE, *Medical College* (Govt.). M.D., M.S., M.Sc—Physiol. Class accommodation for 439 Degree students. Principal, and Prof. of *Surgery*—Lt-Col. H. H. Broome, M.B., F.R.C.S. Eng., I.M.S. Other Profs—*Anat*—Major P. B. Bharucha, O.B.E., I.M.S.; *Med.*—Lt-Col. D. W. Sutherland, M.D., C.I.E., C.M., M.R.C.P., I.M.S.; *Forensic Med.*—Civ. Surgeon, Lahore; *Hygiene*—The Asst. Dir. of Public Health, *Clinical Med*—Major J. J. Harper Nelson, I.M.S., *Mental Dis.*—Capt C. J. Lodge Patch, I.M.S.; *Midwifery*—Lt-Col. G. Tate, I.M.S.; *Path.*—Lt-Col. H. M. Mackenzie, I.M.S.; *Physiol.*—Brevet Major T. A. Hughes, I.M.S., *Mat Med*—Capt Amir Chand, M.B., I.M.S., *Operative Surgery*—Major R. H. Bott, M.B., B.S. Lond, F.R.C.S., I.M.S.

DELHI, *Lady Hardinge College for Women* Final Prof. examn. Principal—Miss G. J. Campbell, M.D., Ch.B. Glas

Teaching

LAHORE, *Central Training College* (Govt.). B.T. Principal—H. G. Wyatt, M.A. Oxon Vice-Principal—R. H. Whitehouse, D.Sc

Agriculture

LYALLPUR, *Agricultural College* (Govt.) M.Sc Agr Research Depts. in Agr., Bot., Chem. Principal, and Prof. of *Bot* and Economic Botanist—D. Milne, B.Sc (Ag), I.A.S. Prof of Agr—H. R. Stewart, D.I.C. Lond, N.D.A. Prof of *Chem.* and Chem Adviser to Govt.—P. E. Lander, M.A. Camb, D.Sc, A.I.C

Commerce

LAHORE, Government Institute of Commerce. Founded 1919. Admission test, matric examn. Courses for Diploma in Commerce, holders of which are eligible for B.Com classes of Lucknow Principal—L. Rang Bihari Lal, B.A., B.T. Teachers of Economics, Banking, Geog., Acctcy, Comml. Law, Shorthand and Typewriting

Arts and Science

AMRITSAR, *Khalsa College*. M.A.—Ec, Maths., E. Large Collegiate School attached. Principal, and Prof. of *English*—G. A. Wathen, C.I.E., M.A. *Maths*—Hukam Chand, M.A., B.Sc; *Econ*—B. R. Chatterji, M.A.

JAMMU, *Prince of Wales College*. M.A.—Ec; M.Sc.—G. Principal, and Prof. of *English*—Ramdas Khan, M.A. Yale, Ph.D. Calc. *Geol.*—B. K. Bose, M.Sc.

LAHORE, *Dayanand Anglo-Vedic College*. M.A.—Ec, S. 600 resident and 400 other students. Principal, and Prof. of *Chem.*—Lala Sain Das, M.A. Calc, B.A. Camb. *Econ.*—R. Amar Nath Bah, M.A. *Sansk*—M. K. Sircar, M.A.

LAHORE, *Dyal Singh College*. M.A.—M., Ph. Principal, and Prof. of *English*—N. Niyogi, M.A. *Maths.*—Hem Raj, M.A. *Philos.*—Amar Nath Bhasin, M.A.

LAHORE, Forman Christian College M A—E, Ec, H, M ; M Sc—M, C. Supported and controlled through Board of Trustees by Panjab Mission of American Presb Church Has a Dept of Indust Chem. Principal, and Prof. of *Econ.*—E. D. Lucas, M.A., D.D. *English*—J. B. Weir, M.A., *Hist*—Ross Wilson, M A, *Maths.*—S N. Das Gupta, M A Calc. *Chem.*—P C. Speers, B Sc

LAHORE, Government College M A—A, C, E, Ec, H, M, Ph, Ps, S ; M Sc—B, C, M, Ps, Z Principal, and Prof of *Physics*—A S Hemmy, M Sc Melb, B A Camb Profs of *Arabic*—M Sadr-ud-din, D Litt, *Bot*—Shiv Ram Kashyap, B A. Camb, M Sc, Rai Sahib, *Econ*—G D Sondhi, B A. Camb., *English*—J R Firth, M A ; *Hist*—H L O Garrett, M A Camb ; *Maths*—Gopal Singh Chawla, M A Panj and Calc, B A Camb, R.B., *Zool*—G Matthal, B A Camb, M Sc, *Chem.*—H B. Dunnichiff, M A, B Sc ; *Philos*—G C Chatterji, M A, *Sansk*—Gulbahar Singh, M A, LL B

LAHORE, Islamia College. M A—A, Ph, Ec For Muhammadans. Principal, and Prof of *Engl* and *Econ*—J L Wilson, M.A Profs of *Arabic*—M Asghar Ali, M O L, *Philos*—Abdul-Hamid, M A

LAHORE, Sanatan Dharma College M.A—Ec, S Principal, and Prof of *Sansk*—Raghubar Dayal Shastri, M A, M O L *Econ*—Brij Narain, M A

LAHORE, Kinnaird Girls' College Principal, and Prof. of *Econ*—Miss E. M. Edwards, M A Liv

PATIALA, Mohindra College (State) No fees M A—M, Ph Principal—A K Sharma, M A Prof of *Maths*—Bhagat Ram, M A, LL B

PESHAWAR, Edwardes College Principal, and Prof of *English*—P. W Stephenson, M A, B D

PESHAWAR, Islamia College. For Muhammadans 6 miles from Peshawar Residential Large Collegiate School attached Principal, and Prof. of *English*—H Martin, M A Ox

RAWALPINDI, Gordon Mission College Principal, and Prof of *English*—E L. Porter, M A, D D Westmr, U S A

SIALKOT, Murray College Maintained by Panjab Mission of Church of Scotland Principal, and Prof. of *Engl.*—W. Scott, M.A, B D

SRINAGAR, Sri Pratap College (State) M A—M, Ph, S. Principal, and Prof of *Engl*—L MacDermott, B A, *Maths.*—Gyani Ram, B A, *Philos*—Antarkishen Kichloo, M A, *Sansk*—Ranilal Nanjilal, M A.

THE YEAR 1922-23

BENEFACTIONS. Govt grant for Chair of Zoology and Chemistry Dept. and for building and equipping Chem Lab

NEW DEVELOPMENTS. Residence in approved Hostel made compulsory for undergraduates in Lahore

CHANGES IN REGULATIONS Options for B A and B Sc widened Honours course in Oriental Langs. and in Maths extended to 3 yrs.

NUMBER OF STUDENTS appearing for Degree exams. in 1921 and in 1922 in *Sansk*—200, 103, *Arabic*—46, 46, *Pers*—213, 317 ; B A—1332, 1406 ; B.A. Hons.—202, 238, M.A.—109, 98 ; B.T.—49, 51 ; B.Sc—93, 146 ; B.Sc Hons.—53, 86, M Sc—17, 30 ; LL B—207, 315 ; M.B, B S—51, 71 ; M D.—0, 2.

PATNA UNIVERSITY

CHANCELLOR—THE GOVERNOR OF BIHAR AND ORISSA

VICE-CHANCELLOR—V. H. JACKSON, M A Ox

REGISTRAR—R. SHAW, M A Aberd

UNIVERSITY READERS, 1923-24

S N Mazumdar-Shastri, M A (His- tory, etc., of Pali and Prakrit)	J S Armour, M A (Shakespeare study)
P K Parija, M A (Plant Life and Oxygen)	J N Samaddar, B A (Ancient Indian History, with special reference to Bihar)

GENERAL INFORMATION (v. also p. 474)

Founded Oct 1, 1917. Most of the teaching is conducted in the "admitted" Colleges, v. *infra*

LIBRARY, 5000 vols

FACULTIES Arts, Science, Educn, Law.

DEGREES B A, M A, Ph.D, B Sc, M.Sc, D Sc., B Ed., B L., M.L., D.L.

RECOGNITION of exams is accorded by Ox, Camb, Dub, Edin, and the General Med Council

PUBLICATIONS. *Calendar*, Rs. 4; *Courses of Studies*, Re 1; *Question Papers*, Rs 4, *Regns*, Re 1, *Minutes*, Rs 2, *Matriculation Selections* (Sansk, Pers, Engl Poetry), Re 1/8/0 each

ADMITTED COLLEGES—(a) Admitted to Degree Standard

PATNA COLLEGE M A, M Sc Principal, E A Horne, M A St And (acting) Professors *Arabic and Persian*—Azimuddin, Ahmad, Ph D Leip *Chem*—A S Khan, M Sc Manc, K S Caldwell, B Sc Wales, Ph D Leip, M A *Econ and Pol Philos*—C J Hamilton, M A Camb, H R Batheja, M A Ox *Engl*—J S Armour, M A Glas, D Auchterlonie, M.A Aberd; J C Banerjee, M A *History*—W Owston Smith, M A Ox; G S Bhate, M A Edin *Maths*—W W T Moore, B A Dub, A Chatterje *Philos*—C C Sinha, M A *Physics*—A Mukarji, K Prasad, B A Camb, K Dayal, M Sc *Sanskrit*—R Sarma, M A 21 other Profs, Lectrs, and Demrs

CUTTACK, *Ravenshaw College* M A, B Sc Principal—H Lambert, M A Camb Prof of *Engl*—P O Whitlock, M A Camb Other Profs *Botany*—P Misra, M Sc *Chem*—B K Singh, C Mahantv, M Sc *Econs*—S C Bardhan, M A *Hist*—Jadunath Sarkar *Law*—Syed S S Alam, Barr-at-Law *Maths*—S K Ganguli, M A *Persian and Urdu*—A F M Abdul Kadir, M A *Philos*—M M Senapati, M A *Physics*—S C Tripathi, B A Camb. *Sanskrit and Oriya*—K N Das, M A 24 other Profs, Lectrs, and Demrs

CUTTACK, *Training College*. L.T.

BANKIPUR, Bihar National College B.A., B.Sc. Principal, and Prof. of *Philos*—D. N. Sen, M.A. Other Profs. *Chem.*—B. K. Chowdhry, M.Sc. *Engl.*—S. M. Huq, M.A. *History*—H. C. Rai Chaudhary, M.A. *Maths.*—L. K. Ghosh, M.A. *Persian*—A. Sayed, M.A. *Philos*—G. P. Hazari, M.A. *Physics*—D. K. Bhattacharayya, M.Sc. *Sanskrit*—S. N. Bhattacharayya, M.A. 15 other Profs., Lectrs., and Demrs

MUZAFFARPUR, Greer Bhumihar Brahman College. B.A. Principal—T. C. Orgill, B.A. Camb. Profs. *R. P. Khosla, M.A., B.A. Ox. Arabic and Pers.*—A. B. P. Sinha. *Chem.*—R. K. Basu, M.Sc. *Econ.*—B. B. Mukherjee, M.A., B.L. *Engl.*—M. N. Chatterji, M.A. *Hist.*—S. N. Basu, M.A. *Maths.*—K. P. Das, M.Sc. *Philos.*—J. K. Sarkar, M.A. *Physics*—R. C. Sen, M.A. *Sansk.*—A. P. B. Sastri, M.A., D.Phil. Ox. 10 other Profs., Lectrs., and Demrs.

BHAGALPUR, Tej Narain Jubilee College. B.A. Principal, and Prof. of *English*—S. Sen, M.A. Profs. *Chem.*—H. L. Das Gupta, M.A. *History*—N. M. Acharya, M.A. *Philos.*—B. C. Sinha, M.A. *Physics*—S. N. Banerjee, M.Sc. *Pol Econ*—T. N. Basu, M.A. *Sansk.*—K. C. Chakravarti, M.A. 17 other Profs., Lectrs., and Demrs

HAZARIBAGH, St Columba's College B.A. Principal, and Prof. of *Philos.*—Rev. A. O. Hardy, M.A. Dub. Vice-Principal and Prof. of *Philos.*—H. G. S. Kennedy, M.A. Dub. Other Profs. *Chem.*—H. C. Mukharji, M.A. *Econs*—P. C. Bose, M.A. *Engl.*—G. C. P. Stevenson, B.D. Dub. *History*—J. N. Maitra, M.A. *Maths.*—R. N. Mukherji, M.A. *Pers.*—B. D. Singh Choudhury. 4 other Profs

PATNA Training College. B.Ed. Principal—J. H. Thickett, M.A. Camb. Vice-Principal—S. C. Sarkar, M.A., D.Phil., Dip. Ed. Ox. Profs. S. L. Das Darma, M.A., Dip. Ed. Lond., Sayyid Tahivuddin Ahmad, B.A., L.T.; Sayyid Sultan Ahmad, M.A., B.Ed.

PATNA Law College B.L. Principal—Sayyid Zainuddin, B.L. Vice-Principal—S. S. Alum, M.A., LL.B. Profs. Ragho Prasad, B.L., S. N. Sahay, B.Sc., Barr.-at-Law, Shiveshwar Dayal, M.A., B.L. 4 other Lectrs.

(b) Admitted to Intermediate Standard

Patna New College, Bihar Sharif Nalanda College, Monghyr Diamond Jubilee College, Cuttack Ravenshaw Girls' High School, Interm. classes.

THE YEAR 1922-23

DEGREES CONFERRED. B.A., 233, B.Sc., 23, B.L., 74, B.Ed., 19.

UNIVERSITY OF RANGOON

VISITOR—THE GOVERNOR-GENERAL OF INDIA

CHANCELLOR—THE GOVERNOR OF BURMA.

VICE-CHANCELLOR—SIR R S GILES, M A Ox, Barr -at-Law

PRO-VICE-CHANCELLOR—C A SNOW, M A Ox, I E S, Director of Public Instruction, Burma

REGISTRAR—A. CAMPBELL, M A Edin, I E S

CONSTITUENT COLLEGES AND THEIR STAFFS, October 1923

UNIVERSITY COLLEGE : Principal—D J Sloss, M.A. Liv., I E S

Biology

Meggitt, F J, Ph D Birm Prof.
1 Asst Demr

Chemistry

Peacock, D H, M A Camb, M Sc
Lond, F I C Prof.
Goldsworthy, L J, M A Ox,
I E S Lectr
Venkateswaran, R, M A Mad
Asst Lectr
Ba, Mg, B A Calc, F C S
Asst Lectr
6 Demrs and Asst Demrs

Economics

Jevons, H Stanley, M A, F G S,
I E S Prof

Education

..... Prof.
Scott, Miss M E, M B E. Lectr

English

..... [Prof
Luce, G H, B A Camb, I E S
Campbell, A, M A Edin, I E S
Lectr.
Fraser, W. G, M A Aberd, I E S
Lectr.
Ainley, C W, M A Camb, I E S.
Lectr.
Gopalakrishna, P G, M A Mad
Asst Lectr.

4 Tutors

Forestry

Unwin, R, B Sc Prof

Geology and Geography

Stamp, L Dudley, B A, D Sc,
F G S, I E S

History

Hall, D G E, M A Lond,
F R H S, I E S Prof
Brookes, A, M A, I E S Lectr

Law

Eggar, A, M A, Barr -at-Law
Prof
Bihmoria, J C, B A Bom,
Barr -at-Law Lectr
Mya-Bu, Mg, Barr -at-Law Lectr.

Mathematics

[Prof
Owen, L G, M A Ox, I E S
De, K P., M A Calc, I E S
Lectr
Halдар, K P, M A Calc
Asst Lectr.

2 Tutors.

Oriental Studies

Duroiselle, C, M A. Prof.
Cassim, A, B A Calc
Lectr in Pali
Ba-Kya, Mg, B A. Calc.
Asst Lectr. in Pali.
Akbar, Md Gulam, M A Calc
Lectr in Persian.

Philosophy

Ross, G R T, M A, D Phil
Edin., I E S Prof
Saunders, L P, M A Camb,
I E S Lectr.

Physics

[Prof
Ward, K M, M A Camb, I E S

Aiyar, N C Krishna, M A Mad,
I E S Lectr

Asst. Lectrs

Basu, R M., B.Sc Lond.
Ramanathan, K R, M A Mad
1 Demr. and 3 Asst Demrs.

JUDSON COLLEGE : Principal—R. L. Howard, M.A.

Biology

Gates, G E, M A Harv

Burmese and Pali Literature

Tun-Pe, Mg, M A Calc
Chaudhury, R, M A Calc (Pali)

Chemistry and Physics

Witnah, C H, M Sc Chic
Gleason, P R, M A Harv
Shivers, Marian E, M A Columbia
Scherling, C, M A Calc, B A
Camb
Basak, B J, M Sc Calc
Guha, S C, M A Calc
Aye-Maung, Mg, B Sc Calc

English Literature

Gilmore, D C, M A, D D Ro-
chester
Crawford, R N, M A Chic
Currier, R P, M A Harv

Hunt, Miss H K, Ph D Denni-
son, B Sc Simmons, *Dean of
Women*

Htin-Si, L, M A Calc.
Mani, B S, B A. Calc

History

Sen-Gupta, S K, M A Calc
Tapa, James, M A Calc

Mathematics, v also Chem

Van Horn, C E, M A, B D.
Colgate

Anantanarayana, P P, M A Mad
Kangyi, Johnson, B A Calc

*Mental and Moral Science and
Logic*

St John, W, B D, Ph D Chic
Howard, R L, M A Harv
Hla Bu, Mg, M A Calc
Jury, G S, M A Yale, *Vice-
Principal*
Hla-Baw, Mg, B A Calc

GENERAL INFORMATION (v. also p. 474)

This Univ, founded in Dec 1920, is governed by a widely representative Council consisting of not more than 50 members, which exercises its functions by means of an Executive Committee of 10 members. The Council has the power to reject any act or resolution of the Senate (the academic body of the Univ) in excess of its powers under the Univ of Rangoon Act, 1920, and to confirm or reject any resolution presented by it affecting the income or expenditure of the Univ or of a Constituent College. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ buildings, which will lie along the margin of the Lakes. Both Constituent Colleges and the Halls of Residence attached to them will be accommodated on the estate, where Univ. teachers will be housed and provision made for

playing-fields, and ample room will still be left for other professional and technical colleges.

LIBRARIES—University, in process of formation; University College, 10,000 vols, Judson College, 7000 vols

DEGREES—B A and M A, B Sc. and M Sc, B Sc Civ Engin; B.Sc. Forestry, B L, M B

DIPLOMAS, in Teaching and in Economics

ADMISSION Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School exam or the European High School exam held by Educational Dept in English, a Vernacular, Maths, and two optional subjects Proficiency in English must be shown The Univ has access to the High School Final exam results and classes intending students A class may matriculate; B class must undergo a preliminary year's study, which is mostly intensive work in English

FEES for Examinations. B A, B Sc, Rs 30, B A (Hons), B Sc (Hons), Rs 40; M A, M Sc, Rs 40, B L, Rs 40

THE YEAR 1922-23

Courses for Diploma in Teaching commenced (in Univ College) in 1922, courses in Biology in 1922 (Judson College) and 1923 (Univ College), courses for M B and for B Sc in Forestry in June 1923 in Univ College Boards of Studies formed in Geol and Geog and Economics, and teaching commenced in Univ. College in 1923 Preparations completed for courses for B.Sc in Engineering from 1924 onwards Degrees conferred D Litt (Hon)—1, D Sc (Hon)—1, M A (*ad eundem*)—2, B A (*ad eundem*)—1, B A—37, B Sc—14, B L—16 At special Convocation held on Feb 2, 1923, degree of LL D (Hon) was conferred on first Chancellor, Sir Reginald Craddock.

THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

PATRON—H E THE VICEROY OF INDIA

DIRECTOR—M O FORSTER, D Sc , Ph D , F I C , F R S

PROFESSORS, ETC., November 1923

<i>General Chemistry</i>	[Prof	Banerjee, B , M Sc	Asst
Watson, H. E , D Sc Lond , A I C		Srinivasiah, M , B A	Asst
<i>Organic Chemistry</i>			
Sudborough, J J , D Sc Lond ,		<i>Electrical Technology</i>	[Prof
Ph D Heid., F I C (Head of		Catterson-Smith, J K , M I E E	
Dept of Genl and O C)		Grundy, E L , B Sc , A M I E E	
	Prof.		Asst Prof
Ramaswamy Iyer, P , M A Mad		Mowdawalla, F N , M A , B Sc	
	Asst		Asst
Sanjiva Rao, B , B A Mad	Asst.	<i>Mechanical Engineering</i>	
<i>Bio-Chemistry</i>	[Prof	Kann, J H C , B Sc	Asst Prof
Fowler, G J , D Sc , F I C , F C.S.		<i>French and German</i>	[Lectr
Malandkar, M A , M A , B Sc		Tacchella, C F H , M A Dub.	
Bom.	Asst		

GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances

Associateships are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr—July–Sept, Nov–Dec, Jan–March) devoted entirely to research work, also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 27 Associateships have been granted

Students reside in a *Hostel*. Messing charges are from Rs. 28 to Rs. 35 p m, rent, lighting, and service, Rs. 10 p m.

PUBLICATIONS. The scientific work of the Institute is recorded in the *Institute Journal*, of which about 15 parts are issued annually.

POSTAL ADDRESS : Indian Institute of Science, Hebbal, Bangalore District.
TELEGRAMS—Science, Bangalore.

THE YEAR 1922–23. *Number of Students and other Workers* : Genl. and Org. Chem.—40, Bio-Chem.—20, Elec Tech.—17. *Current Expenditure*, Rs 4,62,351.

CEYLON UNIVERSITY COLLEGE, COLOMBO

PRESIDENT—THE GOVERNOR OF CEYLON

PRINCIPAL—R MARRS, M A Ox, C I E.

REGISTRAR—Rev. W S SENIOR, M A Ox

PROFESSORS AND LECTURERS, November 1923

<i>Botany</i>		<i>Modern History</i>	
...	Prof	Pakeman, S A, M A Camb	Prof
Le Goc, Very Rev Fr M J,		<i>Mathematics</i>	
O M I, M A Camb, B Sc		Suntharalingam, C, B A Ox,	
Lond, Ph D Rome	Lectr	B Sc Lond	Prof
<i>Chemistry</i>		Caspersz, U D R, B Sc Lond	Lectr
Rae, W N, M A Camb, A I C.	[Prof.	Gulasekharam, F H V, M A	Lectr
Chandrasena, J P C, Ph D		Madras	
Lond, D I C, A I C	Lectr	<i>Philosophy</i>	
<i>Classics</i>		Cameron, D J, M A Ox	Prof
Cameron, D J, M A Ox	Prof	<i>Physics</i>	
Senior, W S, M A Ox	Lectr	.....	Prof.
<i>Economics</i>		<i>Sinhalese, Sanskrit, and Pali</i>	
..	Lectr	Suriyagoda, S S, B Litt Ox	Lectr.
<i>English</i>		<i>Tamil</i>	
Smith, Leigh, M A Durh	Prof	. . .	Lectr.
Samarawickrema, W A, B A		<i>Zoology</i>	
Lond	Lectr	Pearson, J, D Sc Liv and Manc,	Lectr.
<i>French and German</i>		F L S.	
Jansz, P L, M A Camb	Lectr		
<i>Geography</i>			
Robison, L McD, B A Vict.	[Lectr.		

GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Govt. A College Council of 16 members nominated by the Governor of the Colony advise the Govt. on all important questions connected with higher education

LABORATORIES. Botany, Chemistry, Physics, Zoology

TERMS Oct -Dec ; Jan -March, May-July.

ADMISSION to the Ordinary courses is restricted to students who have passed the London Matricn. examn. or obtained exemption from it Others may be admitted to Special courses on payment of admission fee, Rs. 10.

DEGREE COURSES are provided for the B A , B Sc. (Economics), of the Univ of London By special arrangement the Univ. holds its Honours examn in Ceylon in Engl., Classics, Hist , Philos , Maths , Chem , and Zool. A Pre-Registration course in Physics, Chem , and Biol is provided for students of the Ceylon Med. College (v *infra*).

ORIENTAL LANGUAGES Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

FEES FOR TUITION Full Course—Rs. 150 p.a *plus* Rs 30 p a. extra for each Science subject offered Single Subject Arts—Rs 15 per term; Science—Rs 25 per term

RESIDENCE Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs 40 p m

SCHOLARSHIPS FOR GRADUATES The Ceylon Govt offers 5 of £300 p a , each tenable for 2 or 3 years in a British Univ—one for Arts, one for Science, one for Agr and Forestry, and 2 for Engineering Candidates must have been resident in the Island for 5 years.

THE YEAR 1922-23 Govt grant of Rs 20,000 for purchase of books. *New posts* Prof of Botany, Lectrs in Economics and in Tamil Two annual scholarships in Engineering instituted Buildings formerly occupied by the Royal College were made over to the Univ. College by Govt *Resignation* Prof A E Grant Several public lectures were given by members of the staff on literary and scientific subjects. *Students* . in Arts, 63 (including women—4); Science, 71, Medical (1st year), 37 Part-time, 6 *Degrees* obtained—B A. (Lond), 4 , B Sc. (Lond), 4.

THE CEYLON MEDICAL COLLEGE, founded in 1870, is recognized by the General Medical Council—v Appendix XI A (b) It has a staff of about 26 lecturers and demonstrators and over 200 students

KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

PATRON—SIR LAURENCE N GUILLEMARD, K C B

PRESIDENT OF COUNCIL—A L HOOPS, B A , M D , D P H Dub.,
Principal Civil Medical Officer

PRINCIPAL—G H MACALISTER, M A , M D , D P H Camb

TEACHING STAFF, October 1923

[(P -T) = Part-time Lecturer]

<i>Anatomy</i>		<i>Pathology and Bacteriology</i>	
Harrower, J G , M B , Ch B		Finlayson, G A , M A , M B.	
Glas Prof		Aberd , M R C P Lond	
Karunaratne, J U , L M S Asst			(P -T)
<i>Bacteriology, v Path</i>		Subramanyan, C , L M S	
<i>Biology</i>			Asst in P
Scharff, J W , M B , B Ch ,		<i>Physics, v Chem</i>	
B A O Dub (P -T)			
<i>Chemistry and Physics</i>		<i>Physiology and Pharmacology</i>	
Dent, F , M Sc Vict and Leeds,		Kay-Mouat, J R , M A Ox , M B ,	
Ph D Munich, F I C Lectr		B Ch , D P H , M Sc Bris	
<i>Eye Diseases, v Surg</i>		King Edward VII Prof	
<i>Infectious Diseases</i>		Lee Keng Soon, L M S Asst.	
Dawson, W , M B , Ch B Glas ,		<i>Public Health</i>	
D P H Liv (P -T)		Brooke, G E , M A Camb ,	
<i>Materia Med and Pharmacy</i>		L R C S , L R C P Edin ,	
Crawford, G W , M P S		D P H (P -T)	
<i>Mental Diseases</i>		<i>Surgery</i>	
Stone, E R , M B , B Ch Camb		Black, K , F R C S Eng , L R C P.	
<i>Medicine</i> [Prof		Lond , L D S , R C S (Lectr	
Webster, J S , M B , B S , D P H		in Eye Diseases) Prof.	
The Principal Lectr in Clin Med.		Smith, C J , F R C S Edin	
<i>Midwifery and Gynaecology</i>		(Senr Surgeon, Singapore)	
English, J S , B A , M D , B Ch ,		Part-time Prof.	
B A O , L M Dub Prof		<i>Therapeutics</i>	
		The Principal	

GENERAL INFORMATION

This is a Government institution, partly endowed by public subscription, managed by a Council of Govt officials and private members, with the Principal Civil Medical Officer as President, advised by a Senate composed of the

professors and lecturers with the Principal as Chairman. Since its foundation 137 licentiates have passed out. It owes its name to a large donation from a King Edward VII Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916—v Appendix XI.

Admission qualifications. (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist, Geog, Chem, Physics, Bot, Expl. Sc, Applied Maths, or (2) certificates of equivalent standard, e.g. London Matricn, recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

TERMS. Trinity—June 1 to Aug 31, Michaelmas—Oct. 1 to Dec. 20, Lent—Jan 7 to March 25

Composition FEE for complete 5-year course, covering tuition, hospital tickets, and examns. (except fees for re-examn), \$700

RESIDENCE, ETC. Hostel for 72 students. There is a Students' Union

THE YEAR 1922-23 Curriculum remodelled to conform with requirements of the G M C. Foundation stone of new buildings laid on Sept. 6, 1923. *Number of Students*, 156 (Tamils and other Indians, 60; Chinese, 50, Malays, 5; Eurasians and others, 41). *Licentiates*, 1923, 21.

UNIVERSITY OF HONG-KONG

PATRON—H M THE KING

CHANCELLOR—THE GOVERNOR OF HONG-KONG

VICE-CHANCELLOR AND PRINCIPAL—SIR WILLIAM EDWIN BRUNYATE,
K C M G, M A Camb.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—SIR CHARLES
S ADDIS, K C M G

REGISTRAR—N TEESDALE-MACKINTOSH, M A Ox.

PROFESSORS, LECTURERS, ETC., October 1923

Accounting & Business Practice
Messrs Lowe, Bingham, and
Matthews, C A Lectrs

Anatomy [Prof
Shellshear, J L, M B, Ch M Syd
Wong, R J, M B, Ch M Syd
Tutor

Biology
Barney, R W, M A Dub. Lectr

Chemistry [Prof
Byrne, G T, M Sc Manc, A I C

Chinese
Au Tai Tin (Hanlin) Lectr
Lai Hsi Chi (Hanlin) Lectr

Education
Forster, L, B A Lond Prof

Engineering, Civil and Mech
Smith, C A Middleton, M Sc
Birm, M I M E, A M I E E
Taikoo Prof

Fenwick, A, B Sc, A M I C E
Lectr

Morley, C, M A Camb Lectr
Redmond, F A, B Sc Lond
Prof. of Civil E

Gittins, W M, B Sc
Demr in Civ E

Wong Tai Cho, B Sc.
Demr in Mech. E.

Ip Hin Fong, B Sc
Demr in Civil E
r Workshop Instructor

Engineering, Electrical [Prof.
Roffey, M H, M Sc, M I E E
Day, I, A M I E E Demr

English [Prof
Simpson, R K M, M A Edin
Fenton, J, Ph D Greg Coll,
Rome Lectr & Tutor
Hett, A S, B A Ox
Lectr & Tutor.

History [Lectr
Romanis-Lee, J., M.A. Camb.

Mathematics
Brown, W, M A, B Sc Glas.,
A M I E E (Dean, Faculty of
Engin) Prof

Medicine and Surgery, v infra

Physics
..... Prof

Physiology [Prof
Earle, H. G, M A, M B Camb
(Dean, Faculty of Med)
r Tutor

Political Economy
Hinton, W. J., M A Wales
Dean and Prof
Lectr.

<i>Political Science</i>		<i>Obstetrics & Gynaecology</i> [Lectr
.. . . .	Lectr	Forsyth, C., M D, F R C S Ed
		<i>Ophthalmology</i> [Teacher.
<i>Medicine</i>		Harston, G M, M D, D O Ox.
<i>Hygiene and Pub Health</i>		<i>Pathology</i>
Woodman, W. J., M R C.S.,		Wang, C Y, M D Edin, B Sc.
L.R.C.P.	Lectr.	Manc, D.P H. Prof
<i>Medical Jurispr</i>		<i>Pharmacology and Therapeutics</i>
Minett, E P, M D, M R C S,		Lectr
D P H, D T M & H	Lectr	<i>Surgery</i>
<i>Medicine</i>		Digby, K H, M B, B S. Lond,
Anderson, J, M A, B Sc, M D		F R C S Eng Prof
Glas, D T M & H (Eng)		Koch, W V M, M D Edin Lectr
	Prof	<i>Tropical Medicine</i>
McKenny, C W, M D Dub	Lectr	Thomas, G H, M D, B S. Lectr

GENERAL INFORMATION

The College of Medicine for Chinese, founded in 1887 for the training of Chinese students in Western Medicine, was incorporated under the name of the Hong-Kong College of Medicine in 1907. It had no building of its own, and its teaching was conducted by permission in various hospitals and other institutions. Between 1907 and 1910 an Endowment and Equipment Fund of \$1,280,000 was raised for a University to include Engineering and Arts as well as Medicine. The cost of the buildings and preparation of the site—\$345,000—was borne by Sir H. N. Mody, the originator of the Fund. Other contributors were the Govt. of China, the Hong-Kong Govt., Swire & Sons, and other firms and Chinese residents of Hong-Kong, Canton, and other places. The Univ. was incorporated in 1911 and formally opened in 1912, when it took over the work of the College of Medicine. The buildings, including class-room accommodation for 500 students, three hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians. . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919-20).

The Court is composed of life, *ex-officio*, and nominated members; the Council of 14-16, including the Chancellor, V.C., Colonial Secy., Univ. Treasr., Deans, Regr., Col. Treasr., Dir. of Educn., 2 Chinese members of Leg. Council, Secy. for Chinese Affairs, Chief Manager in H.K. of H.K. and S.B. Corp., and a representative of the H.K. Ch. of Commerce. The Senate consists of the V.C., Dir. of Ed., Dean of and 1 other representative elected by each Faculty, Regr., and representatives of the H.K. Coll. of Med.

MUSEUM of Pathology and Trop. Med. LABORATORIES Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

FACULTIES. Medicine, Engineering, Arts

TERMS. Jan-March, April-May, Sept-Dec

MATRICULATION examn (framed for use also as a School Leaving examn.) includes (a) English, (b) Maths, (c) Chinese Lang and Lit, (d) Latin or a Classical Oriental Lang other than Chinese, (e) Geog, (f) a Modern Lang other than English or Chinese, (g) Mandarin, (h) Hist, (i) Physics, (j) Chem, (k) Higher Maths, (l) Trigonometry, (m) Mechanics, (n) Drawing. (a) and (b) are compulsory for all, and (c) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med. Faculty these must include (c), (d) or (f), and (e) or (h)

DEGREES. B.A., B Sc (Eng), M.A, M B, B S, M D, M S, M Sc. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns residence for 12 (in Med.—15) terms is necessary.

The examn for the Master's degree may be taken at the end of 2 yrs after graduation as Bachelor. For the M A or M.Sc a thesis is required, for the M S, evidence of special post-graduate experience. The examn for the M D. may be taken 5 yrs after graduation, or at the end of 2 yrs if evidence is produced of special post-graduate experience.

Graduates of other Univs who wish to become candidates for a Master's degree must work under the direction of the Faculty concerned for at least 1 yr.

The Degree of B A may be obtained in any one of 3 Depts under 6 "groups" of studies (a) *Pure Arts and Science* Group 1, Letters; 2, Experimental Science, 3, Social Science (b) *Training of Teachers* Group 4 (a), Science and Maths, 4 (b), General (c) *Commerce* Group 5, Commercial Training

FEES for tuition, \$300 p a; board and lodging, \$240, Univ. Union, \$15; books and charges for materials, etc, in Labs, about \$60. It is claimed that there is no European Univ where a foreign student can live so cheaply.

RESIDENCE With the object of "developing and forming the character of students of all races, nationalities, and creeds," it is provided by the Ordinance of Incorporation that all students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns approved by the Council.

THE YEAR 1923 *Benefactions* Sir Paul Chater, \$250,000 *Organization* Separate depts in Med and Surg established, each under a whole-time Prof, Histology transferred to Dept of Anatomy *Curricula* 5-years Med course to date from registration after passing examn in Chem and Physics subsequent to general matricn, 3 yrs instead of 2 to be devoted to clinical work after passing examn in Anat and Physiol *New Post* Rockefeller Chair of Med, J Anderson from London School of Trop Med *Honorary Degrees* Sir C P Chater, C M G *Other Degrees* B A, 17, B Sc, 8, M B, B Sc, 7 *Students* Med, 97, Engin, 48, Arts, 126 (including 4 women) Two medical graduates were awarded Rockefeller Travelling Fellowships for study in Great Britain and America

APPENDICES

REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

Provisional Regulations (Army Orders for March 1920 amended in 1921 and 1922) provide for Commissions being granted in the Cavalry, R A, R E, Royal Corps of Signals, Infantry, Royal Tank Corps, and R A S C, and in the Indian Army. The following Univs, having established approved courses, are empowered to nominate candidates: (a) Oxford, (b) Cambridge, (c) London, (d) Edinburgh and Manchester, (e) McGill and Sydney. The grant of Commissions in the Indian Army is limited to candidates from Univs in the U K. Commissions of accepted candidates will be antedated approximately 1 yr., i.e. to such dates as will give those appointed to the R A. seniority over the Royal Military Academy cadets, and those appointed to other branches seniority over the Royal Military College cadets, who passed out of those institutions in July or Dec (as the case may be) of the previous year. In exceptional cases a candidate who has graduated with First-Class Honours may be granted an additional antedate not exceeding 6 months. The commissions of accepted candidates for the R A S C who have taken a course in Engineering (other than Mining and Metallurgy) will be antedated approximately 18 mos., an additional antedate, not exceeding 6 mos, being allowed in exceptional cases for First-Class Honours, this arrangement will be reconsidered in Jan. 1924. Commissions of accepted candidates for the R E will be antedated, approximately, either 18 months or 1 year, according to the degree held. These antedates will not count for the issue of pay or allowances, but in all cases in which increase of pay is dependent on the completion of a fixed period of service, service towards increase of pay will be considered as commencing from the date to which the commission has been antedated. The additional antedate for First-Class Honours will count for retired pay, but the ordinary antedate of about 1 yr will not so count, and no portion of the antedate will count for Indian pension.

The Army Orders mentioned give full details of the requisite qualifications—general, academic, military, and physical. The age-limits are 21 to 25 (Indian Army 21 to 24) on Jan. 15 and July 15 for winter and summer nominations respectively; special limit of 27 for candidates who were serving on Jan. 1, 1920, or had served prior to that date satisfactorily in R N., R.M., Reg. Army, S R, I A R O, Militia, T F., Overseas Dominions' Forces, or R.A.F., provided they entered Univ. within 6 mos of demobilization. Candidates must be unmarried and British subjects.

Permanent Commissions in the Royal Air Force The Air Ministry has provided on lines somewhat similar to Army Regulations for the

nomination of candidates for permanent commissions in the Royal Air Force, who are prepared to undertake flying, technical and administrative duties in the General Duties Branch. Officers of this branch undertake all the combatant duties of the R A F, and are all required to be competent pilots. The maximum age is 25 on June 1 of the year of recommendation by the Univ. Candidates must have graduated. Graduates of any recognized Univ. of the British Empire are eligible for consideration. No special course of study is required, but preference is given to those who have read for a degree in general or aeronautical engineering, natural science, or mathematics. Selected candidates will normally be attached during the long vacation to a Flying Unit for a period of 6 weeks on probation.

Further information as to the entry and conditions of service in the R A F is given in Air Publication 904, obtainable through any bookseller or from H M Stationery Office, or Air Ministry, Kingsway, London, W C 2.

Medical Officers. Permanent commissions are given to officers selected from those holding short service commission in the R A F. A short service commission is for 2 years (which may be extended to 4 with the approval of the Air Council). The age limit is 28. Full particulars are contained in Air Publication 953.

II

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E C 2.

The *Preliminary* examn for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne during the first week of June and Dec. It embraces : Dictation and short English Composition, Arith, Algebra and Geom., Geog, Hist, a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths, Physics, Chemistry, Geology, Stenography. Exemption is allowed to persons who have passed certain other examns, including those numbered in the list on p 593, 1, 2, 3 (provided the certificate shows the holder to have passed in Maths), 4, 5, 6, and, provided the standard attained was "pass with credit" in at least 5 subjects, of which one was Maths. (Arith and Dictation not counting as separate subjects)—7, 8 (b), 9, 10, 11, 12, 13, and the Central Welsh Board School Certif for Intermediate Examn. The minimum age for being articled is 16

The *Intermediate* examn for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn may not be taken until 2 yrs. have elapsed since passing the Intern, except that graduates articled for 3 yrs. only may take it 1 yr after passing the Intern. No person may present himself for the Final unless he has served under Articles in England or Wales to a member for 5 yrs (or, in the case of a graduate of a Univ of the U K, for 3 yrs). It embraces Advanced Bookkeeping and Accountancy, including Costing and Taxation, Auditing, Partnership and Executorship Law and Accounts, Principles of Law of Bankruptcy and of Law relating to Joint Stock Companies, the Rights of Liquidators, Trustees and Receivers, Principles of Mercantile Law and of Law of Arbitrations and Awards, and as an optional subject, either Banking, Currency and Foreign Exchanges, Actuarial Science, or Economics.

The *Fee* for admission to any of the examns. is 2 gs, and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee

No person may be admitted as *Associate* (fee 10 gs) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs). Distinctive Letters—A C A, F C A

SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—50 Gresham St, Bank, London, E C.2.
Branches Glasgow, Dublin, Montreal, Melbourne, Sydney, Cape Town,
Johannesburg Members (numbering upwards of 4000) are designated
“*Incorporated Accountants*”

Examinations are held ordinarily in May and Nov in London, Manchester, Leeds, Cardiff, Glasgow, Dublin and Belfast 28 days' notice is required They are also held in Australia and S Africa

The *Preliminary* (fee 1½ gs) embraces English (General Knowledge, including main outlines of Modern Engl History and General Geog, Essay, questions testing knowledge and command of Engl), either French or German or Latin, Maths Exempting examns Matricn of approved Univs in the British Empire, and those numbered in list on p 593, 1, 2, 7, 8 (a) or (b), 9, 10, 11, 12, 13, 14, 18 (Arts or Science), Army Qualifying, or, if it comprise Arith, Maths, Engl, one Lang, and one other subject—9a or 10a (Hons), 16 (First-Class certif), 19, 23

The *Intermediate* (fee 2 gs) embraces Book-keeping and Accounts, including Partnership and Execututorship and Cost Accts, General Commercial Knowledge and Comml Law, Powers and Duties of Liquidators, Trustees, etc.

The *Final* (fee 2½ gs.) embraces, in addition to these, Advanced Accounting; Auditing; Merc, Jt Stock Co and Bankruptcy Law; Statistical Methods, Economics

Service under Articles of Clerkship (after passing or obtaining exemption from the Prelim examn) is a condition precedent to sitting for the Interim and Final examns, subject to special regns in favour of Clerks to Public Accountants of long service (9 yrs before admission to the Final) The period of service under Articles is ordinarily 5 yrs, for a graduate of a Univ of the U K 3 yrs Clerks may sit for the Interim. examn on the completion of 2 yrs' service under Articles; for the Final during the 5th year

Admission to *Associateship* (fee 5 gs) is open to a Public Acctt., Principal Clerk to a P A, Acctt. in service of the Govt or of a corporation or public body, under certain conditions, who has passed the prescribed examns Admission to *Fellowship* (fee 10 gs—for Associates, 5 gs) is open to a Public Acctt in the U K or Overseas Dominions after continuous practice as such for 7 yrs (in the case of an Associate, 3 yrs), provided he has passed the prescribed examns Distinctive initials. A S A A, F S A A

Publications Yearbook, 3s; *Journal*, monthly, 12s. 6d p a.; *Examn. Questions*, 1s

LONDON ASSOCIATION OF ACCOUNTANTS, LTD. (BY GUARANTEE)

Incorporated Jan 1905 *Address*—87 Temple Chambers, Temple Avenue, E C 4 *Branches* 13 in the U K and 1 in S Africa Members (about 2500) consist of Fellows (F L A A) and Associates (A L A.A), and are designated "*Certified Accountants*"

Examinations are held in June and December of each year as follows : Preliminary, Intermediate, and Final The last embraces Practical Accountancy, Methods and Machinery of Business, Partnership Law and Accounts, Economics, Company Law, Cost Accounts and Systems of Costing, Executorship Law and Accounts, Rights and Duties of Liquidators, Trustees, and Receivers, Statistics, Auditing, Income Tax Law and Practice (Entrance Fees £1. 11 6, £2 2s, and £2 12 6)

Admission to Membership It is necessary to pass the Association's exams and possess at least 5 years' practical accountancy experience in a responsible position

Publications *Yearbook*, 2s 6d, *Certified Accountants Journal*, 7s p a (post free)

INSTITUTE OF COSTS AND WORKS ACCOUNTANTS

Incorporated 1919 as a Company limited by guarantee with the object, *inter alia*, of securing a definite professional status by means of a system of exams, etc, for persons engaged in occupations requiring knowledge of the cost of production, manufacture or sale of commodities *Address*—38 Grosvenor Gardens, S W 1

Qualifications for membership as Fellow (F C W A) or Associate (A C W A). candidates for admission must be actually in practice as Cost Accountants, at least 25 years of age, and of British nationality, and have had 5 years' practical experience, provided that (1) for Associateship a candidate is eligible who has been for 3 years continuously in practice and (unless exempted by Council) has satisfied the Inst's examns at the "Intermediate" standard, and (2) for either Fellowship or Associateship a candidate, as to whose experience and qualifications the Council is satisfied, is eligible if he has satisfied the Inst's examns at the "Final" standard

Persons actually employed in a manufacturing concern may be elected as "Student" members Such members, if they have not already passed the Inst's "Preliminary" examn or its equivalent, are required, unless exempted by the Council, to pass this examn and thereafter the Intermediate as a condition of continuing as student members

Articled Clerks of members of the Inst are required to have passed or been exempted from the Preliminary examn and to serve 4 yrs. (a

graduate of a univ. of the U.K —3 yrs.) Exemption from this examn is granted to graduates of any Univ of the U K, and persons who have passed any of certain examns., among which are Nos 1, 2, 3, 4a, 8(a), 9, 10, 16 of the list on p 593 and, if taken at or below the age of 16, 9(a) and 10(a), also examns for Comm'l Certifis of the Ox and Camb Schools Examn Board, Univ of Manc., London Chamber of Commerce (Higher) or Manc Ch of Com (senior) or certain other examns.

Subjects of the Prelim examn. (fee, $\frac{1}{2}$ g) Maths, English Essay, Book-keeping, Mechanical Knowledge, and (optional) a Modern Language Interim (fee 1 g): Maths, Economics, Book-keeping, Workshop Knowledge, Costing Final (fee $1\frac{1}{2}$ gs) Maths, Mechanical Knowledge, Law subjects, and Costing

Entrance fees for Fellows, 4 gs, Assocs, 3 gs, Annual subs 3 gs and 2 gs Publications *The Cost Accountant*, monthly Examn. Papers, 1s

INSTITUTE OF ACTUARIES

Established 1848 Incorporated by Royal Charter, 1884 *Address* —Staple Inn Hall, Holborn, London, W C 1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council Candidates must give 14 days' notice Applications for examination outside the U K must reach the Hon Secretaries 2 months prior to the date of examn

Candidates for *Studentship* must have passed (1) one of the following examns (v list on p 593)—Nos 3, 13 (or an examn similar to 3 or 13 at any Univ in the Empire), 9, 10, or any other examn approved by the Council, (2) Part I of the Institute's own Examn Syllabus (Advanced Algebra, Finite Differences and Elementary Calculus, and Elements of Statistics)

Candidates for *Associateship* must be "Students" and have passed Parts I, II, and III of the Syllabus Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, $1\frac{1}{2}$ gs. for each Part Distinctive letters A I A, F. I A.

CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912 *Address* —11 Queen St, London, E C 4 Membership consists of the members of Local Insurance Insts, of which there are 36 in the U K There are also 7 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, and Johannesburg Examns qualifying for Associateship (A C I I) and Fellowship (F C I I) are held in Feb and March. Journal published annually.

III

INSTITUTE OF INDUSTRIAL ADMINISTRATION

Founded 1920 to encourage the study of the methods of administration required in industrial undertakings *Registered Office*—110 Victoria St., London, S W Branches Birmingham and Manchester

Examinations are arranged to be held in 1924 and succeeding years (open to non-members of the Institute), and successful candidates will be given certificates in sections of the full course of administrative subjects The Diploma of the Institute will be awarded to candidates holding sectional certificates after a Final examination Authorized signatures F Inst I A and M Inst I A *Journal* monthly

NATIONAL INSTITUTE OF INDUSTRIAL
PSYCHOLOGY

Founded 1921—for the application of psychology and physiology to industry and commerce *Address*—329 High Holborn, London, W C 1 *Director*—C S Myers, C B E, M D, Sc D, F R S A scientific association for studying and practically applying the human factors which enter into industry and commerce On behalf of firms it conducts investigations into vocational selection, movement study and the influence of rest pauses, lighting, humidity, ventilation, seating, methods of payment, advertisement, etc., on output In its own laboratories it offers vocational guidance to individuals, based on mental and bodily tests It provides lectures and practical work suitable for the requirements of the new Academic Diploma in Industrial Psychology in the Univ of London It also grants *Research Studentships* (5 in 1924) in those subjects It has recently received a grant of £6000 from the Carnegie United Kingdom Trust for further research in vocational psychology *Journal*, quarterly

INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries *Offices*—17 Russell Square, London, W C 1

Regional Groups have been founded or are in course of formation in Birmingham, Manchester, Edinburgh, Liverpool, Leeds, Sheffield, Hull, Bristol, Newcastle, Portsmouth, and Belfast Monthly lectures for members and associates are held in the Old County Hall, Spring Gardens, and in the various towns in which Regional Groups have been formed Monthly popular lectures open to the public are also held in the London School of Economics and Political Science *Journal* quarterly

IV

NATIONAL AGRICULTURAL EXAMINATION BOARD

Appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (3 George IV Bridge, Edinburgh), and including representatives of the Ministry of Agr. and Fisheries and the Board of Agr. for Scotland

(1) An examn in the SCIENCE AND PRACTICE OF AGRICULTURE is held annually for the National Diploma in Agr (N D A). Qualifications for admission a certificate from a recognized Agr. College that his attainments in General Botany and Chemistry, Geology, Physics, and Mechanics justify the candidate's admission, or evidence of (a) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ., or (b) having passed examn. No. 9 or 10 (v. list on p. 593), with evidence of having continued study of science for at least a yr., and a certif. in Elem. Chem. and Physics and Botany of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn., or (c) Interm. Leaving Certif. of the Scottish Ed. Dept., with evidence of having continued study for at least another year, and the Higher Leaving certif. in Science, including Chem. and Botany. Before the Practical Agriculture Papers are taken, candidates must also produce evidence of having resided on a farm for a period or periods * covering a complete year of farming operations. The subjects of the written papers are Practical Agr., Land Surveying and Farm Buildings, Farm Machinery and Implements, Agr. Chem., Botany, Book-keeping and Zoology, Vet. Sc. They may be taken all at one time or 3, 4, or 5 in one yr. and the remainder the next yr. Fee (non-returnable) for entire examn., 6 gs. In 1924 the examn. will be held at Leeds Univ. in April, entries (which should be in prescribed form) close February 23.

(11) An examn. in the SCIENCE AND PRACTICE OF DAIRYING is held annually in England and in Scotland for the National Diploma in Dairying (N D D).

Qualifications necessary for admission. (a) at least 6 session months' instruction (not necessarily continuous) in practical dairy work at an approved dairy training institution, also (b) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (a)); also (c) certificates in prescribed form from a recognized institution or institutions, of attendance on approved courses in Chem., Bacteriology, and Botany, and fitness for admission to the examn. The examn. includes tests of practical skill in Dairying and capacity for imparting instruction to others, as well as tests of the candidate's knowledge.

* After 1924, periods not exceeding two.

In 1924 the exams will be at Reading and Kilmarnock in Sept. Entries (which must be in prescribed form) are receivable at the addresses given above up to Aug 9. A candidate may not enter for the exams both in England and Scotland.

Examn. papers of past years may be had at 6d. a set. A detailed syllabus of subjects of examn is also obtainable.

NATIONAL POULTRY EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., Leeds Univ., S.E. Agr. College (Wye), Univ. College, Reading, and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., late Principal of Harper Adams Agr. College, Newport, Salop. It holds exams annually and awards a National Diploma in Poultry Husbandry (N.D.P.).

Qualifications for admission to the Diploma exams (fee 5 gs.):
 i. Passing the Board's Prelim. examn (fee 2 gs.) in Elem. Chem., Physics, Biol., and Maths., or producing other satisfactory evidence, e.g. Matriculation certificate, of knowledge of these sciences;
 ii. Training in Poultry Husbandry in a recognized Teaching Instn. for at least a year;
 iii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. are Poultry Husbandry in all branches and, in so far as they relate to this, Agr. and Horticulture, Physiology, Pathology, Chem. and Physics, Building and Appliance Construction, Book-keeping. The next examn. will be held in Sept. 1924.

Applications receivable by the Secy., National Poultry Council, 20-21 Essex St., London, W.C.2.

INSTITUTIONS FOR RESEARCH IN CONNECTION WITH AGRICULTURE

THE ROTHAMSTED EXPERIMENTAL STATION, HARPENDEN, HERTS., founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives to the Capital Funds of the Incorporated Society £1 for every £1 raised by it for an approved purpose. The Station includes Institutes of Plant Nutrition and Soil Problems and Plant Pathology, Farm and Experimental Fields, and a Library of 15,000 volumes.

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, established by the Ministry of Agric. and Fisheries at Univ. College, Reading, in 1912, is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assn., Nat. Farmers' Union, etc. Annual Grants are received

[Continued on page 551.]

V

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834 Incorporated by Royal Charter in 1837. *Address*—
9 Conduit St, Regent St, London, W 1.

The Recommendations of the R I B A in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last year of which the student would be working in an architect's office, either as pupil, improver, or assistant—the training being kept under the supervision of the Board of Architectural Education or its delegates during the whole term

Registration as Probationer, R I B A A candidate must submit a certificate of passing some recognized Public examn, or other evidence of general education, and, unless he has passed an Entrance examn in Freehand Drawing at one of the recognized Schools of Arch, evidence in the shape of drawings that he has an elementary knowledge of this subject A list of the recognized schools is given in the following paragraph and particulars regarding them are given in an explanatory Pamphlet on examns, price 1s Registration fee, 4 gs

The *Intermediate* examn (fee 5 gs), open to Probationers of at least 19 yrs of age, tests their progress while engaged as pupil, improver, or assistant in an office, and passing it qualifies for registration as *Student*, R I B A Exemption from this examn (but not from the fee) may be granted, provided the work done during the session be submitted to and approved by the Board, or has been previously approved by the external examiners, to Probationers who have attended the necessary courses at any of the following schools Architectural Assocn, London, Universities of Cambridge, Liverpool, London, Manchester, Sheffield, Birmingham School of Arch, Armstrong College (Newcastle), Leeds Sch of Art, Technical College, Cardiff, Robert Gordon's Tech College, Aberdeen, Edinburgh College of Art and Heriot-Watt College, Glasgow Sch of Arch, McGill Univ, Univ of Toronto, Bombay Sch of Art The R I B A desires that Students within reach of these Univs and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn without such recognized training Students who have passed with distinction through a full course (on lines approved by it) in other Dominion, Colonial, or Foreign schools, may, at the discretion of the Board, be recommended for full or partial exemption

The *Final* examn (fee 6 gs) for the *Associateship*, R I B A, is open to Students of at least 21 yrs of age Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board Exemption from the Final examn, with the exception of that portion which deals with Professional Practice, is given to

Students who have completed successfully a Diploma or Degree course covering at least 5 years at the Arch Assocn, London, Liverpool Univ, London Univ, Manchester Univ, Robert Gordon's Tech College, Aberdeen, Glasgow Sch of Arch, McGill Univ

A *Special examn* (fee 10 gs) for the Associateship is held in June and Dec. It is open to architects in practice not less than 25 yrs of age and Chief Assts over 30 yrs of age

Overseas examns (fee 10 gs) Architects of not less than 25 yrs of age, working overseas either as architects in practice or as assistants, can be admitted to the Special examn for Associateship which is held at certain overseas centres. Particulars are obtainable from the Secy, R I B A, F S Baker, Hon Secy, R I B A for Canada, the Traders' Bank Building, Toronto, Prof L Wilkinson, the University, Sydney, F de Jersey Clere, Wellington, New Zealand, E M Powers, 68 and 69 Standard Bank Chambers, Commissioner St, Johannesburg. This examn is to be discontinued after 1924

Examns (fee 3 gs) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held in Oct

Allied Societies exist in 25 towns in the U K, in Montreal, Adelaide, Melbourne, Brisbane, Sydney, Perth, Wellington (N Z), Cape Town, Durban, Johannesburg, Nairobi, Singapore, and Rangoon

Prizes and Studentships totalling in value nearly £2500 are offered annually. For full particulars see the *Prizes and Studentships Pamphlet* obtainable from the R I B A, price 1s. *The R I B A (Alfred Bosson) Travelling Studentship*. A Gold Medal and £250 and Silver Medals for the encouragement of the study of Commercial Architecture in America will be awarded for the first time in Jan 1925

Publications include the *Kalendar*, 3s 9d, containing, *inter alia*, a historical sketch, regns for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s 6d each number. *Explanatory Pamphlet on Examns* 1s and postage. *Past Examns Questions*, price 1s 6d and postage

The Council R I B A have decided to hold an *International Congress* in London from July 28 to August 1, 1924, for the purpose of considering the history, position, and prospects of Architectural Education. Arrangements are also being made for social intercourse, visits to schools, museums, and places of interest, a reception, and an exhibition of work illustrating the courses of study in operation at Schools of Architecture throughout the world

VI

AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE
OF THE UNITED KINGDOM

Address—34 Russell Sq , London, W C.1.

Examinations are held in London annually, usually in March, the Preliminary (fee 1 g) to qualify for the grade of *Student*, the Intermediate (fee 2 gs) for the Grade of Licentiate, and Final (fee 3 gs), or the Direct Final (fee 5 gs), for the grades of *Associate* (A A I) and *Fellow* (F A I)

The subjects of the *Preliminary* are English Compn , Maths , Geog , Hist of England, General Knowledge, one foreign language (Elem Latin, French, Spanish, Italian, or German), and either Shorthand or Elem Book-keeping Exempting examns Matrion of a Univ in the U K, Prelm of Law Soc , Surv Instn , Inst C A , Soc. of Inc. Acctts and Audtrs , Special Army Ed Certif , London Chamber of Com (Comm1), those in the list on p 593, numbered 7, 8 (a) and (b), 9, 10, 11, 12, 13, 13a, 14, 16 Minimum age, 16

The *Intermediate* is open to Students and Articled Clerks and others who have gained practical experience Minimum age, 19 The subjects are Book-keeping, Plans and Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, and 2 out of 5 other subjects Exempting examns London B Sc (Estate Management) Final, and, as regards some of the subjects, the Interm B Sc , Cambridge B A (obtained on completion of Camb Agric or Estate Management course)

The *Final* is open to persons who have passed or been exempted from the Interm , the Direct Final, to persons not less than 25 yrs. of age who fulfil certain conditions as to practical experience The subjects of the Final are Valuation, Law of Vendors and Purchasers, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, and two out of a list of 6 other subjects The Direct Final includes also the following from the Interm list. Book-keeping, Plans and Mensuration, and Law of Landlord and Tenant

Minimum age for admission to Student grade, 16 , Licentiate grade, 19 , Associate grade, 25 , Fellow, 30 Candidates must also fulfil specified conditions as to practical experience.

Publications Regns and Syllabus with list of Text-books and particulars of Prizes and *Scholarships* (value up to £50), 1s Last Examn Questions, 2s *Yearbook & Diary*, 10s 6d

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W C 2 Incorporated by Royal Charter. Instruction—daytime, evening, and by correspondence—in preparation for the

examns of the Auctioneers' Institute, the Surveyors' Instn, the Land Agents' Society, and the Univ of London (B Sc degree) Principal R Parry, B Sc Lond, F S I, F A I, A M I C E, Barr-at-Law Directors of studies in Urban and in Rural Science 16 other Lectrs and Instrs 18 Visiting Lectrs

THE LAND AGENTS' SOCIETY (INCORPORATED)

Address—12 Little College Street, London, S W 1.

Qualifications for (1) Fellowship Having passed the Society's examns and being suitable in other respects (position and experience) The Council have special dispensing powers to elect as Fellows, without examn, Land Agents of exceptional standing and experience (2) Qualified Associateship Having passed the Society's examns and having had at least 2 yrs' practical experience other than as a pupil paying a premium (3) Associateship Being a Pupil with a Land Agent who is, or is qualified to be, a Member or Qualified Associate

Examinations annually in March Entries up to Sept 15 Fee for each Part, 4 gs Part I comprises Agric (Elementary), Surveying, Agr Law (Elem), Taxation and charges on Land, Building Constn, etc, Forestry, Book-keeping Part II is of an advanced character to test practical knowledge. (Syllabus, 1s)

Journal, 2s 6d monthly (members, 1s)

Continued from page 547.]

from the Ministry of Agric (which is also making Capital Grants for new buildings for the Institute), Ministry of Health, Nestlé and Anglo-Swiss Condensed Milk Co, R A S of England, Medical Research Council, and Univ College, Reading *Address*—Shinfield, near Reading

THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops The two main branches of the work are (a) Crop Improvement, covering field trials throughout the country, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease, (b) Official Seed Testing Station, which makes laboratory tests of the purity and germination of seed samples A course and examn in the theory and practice of seed testing will be held in the summer of 1924, probable fee for course (four to five weeks), £6 6s, for examn, £1 1s Periodical meetings of Fellows of the Inst are held for discussion, etc

V. also pp 27 (Nat Fruit and Cider Inst), 54 (Animal Nutrition), 179 (Agr. Economics), 209 (Plant-breeding), 247 (Animal Nutrition).

VII

THE INSTITUTE OF BANKERS

Founded 1879 *Address*—5 Bishopsgate, E C 2 Local centres in Birmingham, Bradford, Bristol, Cardiff, Derby, Leeds, Leicester, Liverpool, Newcastle-on-Tyne, Nottingham, Sheffield, and Swansea Subscription $\frac{1}{2}$ g to 2 gs p a

Qualifications for election to Associateship (a) 10 yrs' service in a Banking Establishment, or (b) passing approved examns, or (c) being a graduate of a University and on the staff of a Banking Establishment Ordinary members are elected from the staff of any Banking Establishment on the Council's list Associates by examination may add to their names or signatures, "Cert A I B"

Examinations, open to members only, (1) For the Associate Certificate, held in April in London, the provinces, and abroad Latest entry date—end of Feb * Subjects Practice and Law of Banking, Economics, Engl Compn, Comm'l Geog, Foreign Exchange, optional—French, Spanish, Italian, Portuguese, German The examn is divided into two parts extending over not less than 2 yrs Examns *exempting* from Part 1 in Practice and Law,—examns for B Com of Bombay or Lucknow with Banking as special subject, in Econ,—examn by Prof Knoop at Univ of Sheffield Certain certificates obtainable in Manchester, Leeds, Birmingham, Scotland, and Ireland are also recognized (11) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns *Classes* in preparation for the Language examns are held by the Inst, and in preparation for all subjects by the local centres

Courses of *Lectures* in Banking and kindred subjects are given during the winter in London and some provincial towns *Library* (lending), 8000 vols *Journal* monthly, Oct to June, 1s 6d. (1s p a, post free) *Examn Questions* (1922 and 1923), 6d each part

* For members outside Europe, end of Jan.

VIII

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN
AND IRELAND

Founded 1877 Incorporated by Royal Charter, 1885 *Address*—30 Russell Sq, London, W C 1. *Library* of 3000 vols *Laboratories*, available for use for examination purposes by other institutions as well as for the I.C.'s own exams *Appointments Registers* of Fellows, Associates, Registered Students, and Laboratory Assts

Studentship Minimum age, 16 Annual subs, 10s. A candidate for admission must have passed an approved Prelim examn of Univ. matricn standard in English, Elem Maths, an approved foreign language, and either a second lang or one of the following Higher Maths, Engl Hist, Geog, Bot, Chem, Geol, Mechanics, Physics, Zool, and must be undergoing a course of preparation and training for the practice of Chemistry in one of the teaching institutions recognized by the Council, or as a pupil of a Fellow of the Institute in a lab or works approved by the Council The approved Prelim examns include those in list on p 593, numbered 7, 8 (a) and (b), 9, 10, 11, 12, 13, 13a, 14, 16, 18, 22, in Canada—Matricn of Dal, McG, Manit, New Bruns Univs, and Departmental Arts Matricn of Queen's and of Univs and Colls of Ontario, in Australia—Senior Public examns of Adel, Syd, and Tasm, First Year in Arts of Adel and Syd, Matricn of Melb and Syd, in N Z—Prelim of N Z and Otago, in S Africa—Joint Board's Matricn, in India—Interim in Arts of Allahabad and Panj, Matricn of Bom, First Arts of Calc and Mad; in Ceylon—Med Coll Prelim., in Malta—Matricn, in foreign European countries—examns entitling to proceed to the French B ès L and B ès Sc, and other corresponding Entrance examns. approved by the Council The candidate should have passed in the compulsory subjects at one examn, but this condition may be relaxed if he has passed them in two

The institutions recognized for the training of candidates for the Examns of the I C are those in connexion with the Univ of London shown on pp 91, 154—(U), (K), (Im), (Bk), (EL), (2), (5), (8), (10) (evening), (11), (28) (Chem and Botany), and East Ham Tech Coll (for first 3 years of an evening course), Armstrong Coll, Newcastle, Constituent Colls of Wales and of N U I, all other Univs in the U K, Univ Colls, Exeter, Nottingham, Reading, and Southampton, Belfast, Birmingham and Blackburn Munic Tech Schools, Bradford City Tech Coll, Huddersfield Tech Coll, Leeds Central Tech Sch, Salford Royal Tech Inst, Cardiff Tech Coll, R Tech Coll Glasgow, Heriot-Watt Coll, Paisley Tech Coll, R C Sc I, Overseas Univs—McGill, Queen's Univ (Ontario), Toronto, Adel, Melb, Syd, W Aust, Univ. of N Z, Cape Town, Univ of South Africa—Constituent Colls, Stellenbosch.

The compulsory subjects of training are Chem., Physics, and Maths., the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. *Evidence of having passed the class or other exams. is required.*

The A I C examn. in General Chemistry (inorganic, organic, and physical), fee 5 gs, occupies at least 5 days, including 4 days of practical Chemistry, and is open to students who have completed the prescribed training or have obtained a degree including the necessary subjects, and worked for a further year in a recognized Univ. or Coll., or for 2 yrs with a Fellow in a lab or works approved by the Council, or have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem for 10 yrs. The A I C. may be granted (without examn) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs' course in the requisite subjects or a 3 yrs' course supplemented by approved experience in laboratories or works. The Institute recognizes the Final B Sc with 1st or 2nd Class Hons in Chem of all Univs of the U K, of McGill, Toronto, Adelaide, Melb, Syd, the Final M A of the Univ of Cape Town with Chem as principal subject, and the Final B A of Toronto with 1st or 2nd Class Hons in the graduating Dept of Chem and Mineralogy. Applications from candidates having diplomas of a specialized character will be decided on their merits. Entrance fee, 2 gs Annual subsn, 1½ g

The F I C. examn, fee 10 gs (for Associates, 5 gs), occupies at least 5 days in any one of the following branches: Inorganic with Sections, Mineral Products, Metallurgy, Manufactured Products, Physical, Organic, Agricultural, Foods and Drugs and Water, Bio-Chemistry, Chem Engineering. It is open to Associates of 3 yrs' standing, and in special cases to other candidates who have been systematically trained and had considerable experience. The F I C may in exceptional circumstances be granted without examn to Associates of 3 yrs' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, 5 gs Annual subsn, 2 gs

Arrangements have been made between the Board of Education and the Institute for the award of national certificates in chemistry to students in technical schools and colleges in England and Wales (Rules 100, 1921, 2d). Under this scheme the Institute in conjunction with the Board approves schemes of training submitted by the technical schools or colleges, for the award of certificates for part-time and full-time grouped courses, including in addition to chemistry suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certs are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. Courses for Full-time Course certs are suitable for students who have attended a Secondary School up to the age of 16 yrs, and extend over at least 3 yrs for the certif in Chem., and at least 1 yr for the certif in Applied Chem. They include physics, maths., and one or more modern languages,

and may include other cognate subjects. Certifs. are awarded in Chem. and in Applied Chem. Admission to the course in Applied Chem. is restricted to students who have satisfactorily completed a full-time course in chemistry, or other course approved by the Inst. and by the Board

The Council of the Inst. will consider at a later date whether and how far the training and the Higher certifs. should be recognized as qualifying for admission to the examn. for its Associateship

Similar arrangements for the award of Part-time Course National Certificates have been concluded with the Scottish Education Department

Publications *Register of Members*; *Regs. for Admission*; *Examn. Papers*, 1s. a set, *List of Official Chemical Appointments*, 5th edition, Jan. 1924, 3s. net; *Journal and Prods.*, 6 parts annually, 2s. each, *History of Inst.*, 15s., *Lectures* (monographs on various industries—Branches of chemical practice, etc.) at various prices.

CHEMICAL SOCIETY

Address—Burlington House, London, W. 1 Professional qualification not required Entrance by ballot (fee £3), annual subs. £3 Library, 28,000 vols. Monthly Journal and Abstracts Annual vol. of Reports by eminent men on recent progress Research Fund from which grants are made (in 1922 they amounted to £836) for purchase of special materials for research

IX

INSTITUTION OF CIVIL ENGINEERS

Established 1818 Incorporated by Royal Charter, 1828 *Address*
—Great George St, Westminster, S W.1 *Telegrams*—Institution,
London

Examinations, (1) Preliminary and (u) Associate Membership, are held annually in April and Oct in London Entries receivable up to Feb 28 and Aug 31 The April Prelim and Oct A M may also be held, the former in Manchester, Glasgow, and Newcastle-upon-Tyne, the latter in the King's Dominions overseas (1) may also under certain conditions be held overseas

For admission to (1) nomination by a corporate member is necessary, and conditions relating to practical training have to be fulfilled It includes English, Maths, and 2 (which must not both be languages) of the following subjects Elem Chem, Elem Mechanics, Elem Physics, Latin, Greek, French, German, Ital, Span, Port, Dutch, Hindustani, Russian

Admission to (u) is open to (a) *Students* of the Instn (v *infra*) of at least 1 yr's standing between ages 21 and 26, and (b) persons of at least 25 yrs of age who have passed or are exempt from (1) and are in other respects (training, experience, etc) qualified for election into the Institution It includes papers in (A) Mechanics, Strength and Elasticity of Materials, *either* Theory of Structures *or* Theory of Elec and Magn, (B) 2 out of 9 other subjects, and (C) Engin Drawings, Specifications, and Quantities, and, unless candidate has previously qualified therein, a modern Foreign Lang

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn's prescriptions A candidate for election as *Associate Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (1) and (u) Exemption from (1)* is granted to graduates of any Univ. of the Empire, and Whitworth Scholars and, subject to certain provisos, persons who have passed any of examns (v p 593) Nos 3, 4 (Engin), 8a, 8b, 9, 10, 11, 13a, 13b, 14, 15a (Engin), 15b (Engin), 15c, 17, 18, 19, 20 (Engin), 21, 22, or *Matricn* (Engin) of McGill, or certain Entrance examns of the Australasian Univs, or combined *Matricn* and First Year's examns of Univ of S Africa or of Cape Town Exemption from sections (A) and (B) of (u) is granted for the following degrees if taken after 3 yrs' study in the several Univs in accordance with their regns Oxford B A with Hons in Engin Sc, Final Hons Sch, Camb B A. Hons. Mech Sc Trip, Edin., Glas., or St And B Sc in Engin, Dub B A. I with Hons, B Sc or B Eng with Hons, Birm, Brist, Leeds, Liv, Lond, McG, Manc, Sheff, also subject to further provisos certain

* This list is under revision—Dec. 1923.

other degrees of Adel, Belf, Birm, Brist, Cape Town, Dub, Durh, N U I, Leeds, Liv., Lond, McG, Manc, Melb, N.Z, Queensland, Sheff, S Africa, Syd, Wales No exemption from section (C) is allowed

Members and Associate members are entitled to the designation *Chartered Civil Engineer*.

Publications. *Report on Methods of Educn and Training of all Classes of Engrs.*, 1906, Wm Clowes, 94 Jermyn St, S W 1, post free, 11d, *Report of Confce on Educn and Training*, June 1911, Papers and Reports on Technical Subjects

INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871 Incorporated by Royal Charter 1921 *Address*—Savoy Place, Victoria Embankment, London, W C 2 *Telegrams*—Voltampere, Phone, London

Examinations are held in London and other centres in Great Britain about the end of April and the end of Oct of candidates for *Associate Membership* Applications should reach the Secy not later than March 1 and Sept 1 respectively Examns may also be held abroad at the discretion of the Council Part I of the examn includes English essay or translation into English from French, German, Italian, or Spanish, Applied Mechanics, and either General Elem Physics or Chem Part II consists of papers on technical subjects only

A candidate for the Associate Membership is required, unless exempted, to pass the examn or to present a thesis, paper, or other contribution to Electrical knowledge He must also be at least 25 yrs of age or have been a student of the Institution for at least 3 yrs, must be engaged in one of the branches of El Eng, and satisfy the Council as to his experience, etc

Exemption from Part I of the examn is granted to candidates who have passed an Intermediate examn, including maths and physics, of any Univ in the U K or Colonies, or Whitworth Exhibition, and exemption from the whole of the examn to persons who have obtained: any Engin degree of any Univ in the U K or the Colonies, Whitworth Scholarship, Diploma in Engin of R C Sc I or (in E E subjects) of Univ of Liverpool, Diploma or Certif in E E of the City and Guilds (Engin) Coll, or King's Coll, London, Diploma in E E of Univ Coll London, Faraday House, Heriot-Watt Coll Edin, Roy Tech Coll Glas, Armstrong Coll, Technical Coll Bradford, S African Coll, Day Course certif in E E of Finsbury Tech Coll, 4 yrs' Engin Course certif of Northampton Poly Institute, London, Diploma in E E. of the Battersea Polytechnic, Honours Diploma of Loughborough Coll, Certif of Technology in E E of Manc Municipal Coll of Tech or Inst of Science, Bangalore, India The Final or Hons grade certif in E E of the City and Guilds of London Institute exempts from Part II

National Certificates and Diplomas are awarded by the Institution and the Board of Education jointly on lines similar to those for Mechanical Engineers, v *infra*

INSTITUTION OF MECHANICAL ENGINEERS

Established 1847 *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech Parl, London.

Examinations are held in London and at provincial centres in April and Oct., and at centres overseas in Oct. (1) *Studentship* (minimum age, 16), including papers in English, Elem Maths, Elem Mechanics, and either Physics or Chem. (2) *Associate Membership* (A M I Mech E) open to students of the Instn (minimum age, 20), or candidates for Graduateship over 21 and under 30 who intend to become Assoc Members, and for whose regular training as M E's satisfactory arrangements have been made, or other candidates (minimum age, 27) duly proposed for election and permitted to take the examn. The examn includes a Modern Lang, Applied Maths, Physics and Chem. Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject, also the Economics of Engineering.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed examn (2), and have received or be receiving regular training as a Mechanical Engineer, and have received or intend to obtain sufficient practical and scientific training to fit him for employment in a responsible position. Minimum age, 21.

A candidate for election as *Associate Member* must be a practising Engineer at least 27 yrs of age. The passing of the A M or equivalent examn is an indispensable qualification up to the age of 33, and he must, in addition, have been regularly trained as a M.E. and have had sufficient practical experience in the direction or design of Engineering work.

Examns exempting from (1): Graduateship of any Univ in the Empire, any of those on p 593 numbered 3*, 4 (Engin), 5, 6 (provided either Mechanics or Chem is covered by the Certif), 7 (provided it has been taken by an Internal student of Birm, Leeds, Liv, Manc, or Sheff), and a Pass with Credit obtained in Engl Comp and Lit, Maths, and 2 of Mechanics, Physics, Chem), 8 (a) (provided candidate passed in Physics either as a Group or as a Subsidiary subject—not in combination with Chem), 9 or 10†, 11 (if covering requisite subjects of Graduateship examn, v. *supra*), 13‡, 13 (a)*, 14†, 15 (a) (Engin), 15 (b) (Engin), 15 (c), 17 (provided a foreign language was taken), 18, 19†, 20 (Engin), 21 (if including English, Hist, Geog, Maths, and either Nat Philos or Physics), 22; Matricn. (Engin) of Birm, Liverpool, or Hong-Kong, S. Africa Matricn; Instn. of C E. Studentship; Naval Cadets passing-out, Whitworth Scholps. and Exhibns.

Examns exempting from (2): Engineering Degrees of any Univ. in Gt Britain (including War B Sc (Eng.) Lond), Ireland, British Dominions, or India, except such as may be specifically excluded,

* If the certif covers Mechanics or Chem. or Physics or Drawing

† If the certif. covers a physical science subject.

‡ If the certif. covers Elem and Adv. Maths., Hist., and Geog., and either Mechanics or Chem. or Elem. Physics.

Camb B A Hons in Eng. and, if Spl examns in Eng Sc and in either Chem or Physics were passed, or under new Regulations, Engineering I and II, with another subject from a list, the ordinary B A, Manc Certif in Technology, Mech or El Eng., Eng Degree of a Foreign Univ if recognized by the Council, Diploma in Eng of Univ, King's, or City and Guilds (Engin) Coll, London, Dipl. or Higher Certif (3 yrs' course) of City and Guilds of Lond Inst if taken by matricd student, Final Dipl in Mech or El E of R T C, Glas, if approved Matricn examn passed before beginning course, R N. examn qualifying as Lieut (E), R N College Prof Certif for Constructors, Inst C E, Assoc M, Whitworth Scholps and Exhibns. The above do not exempt from the paper on the Economics of Engineering. A degree in Commerce of a British Univ, however, exempts from this paper.

National Certificates and Diplomas are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schools and Colleges (v Board of Education, Rules 106, 1921, 1d). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching within the limits of the subjects covered by them the standard of University work. Full-time courses are also classified as *Senior* (for Secondary School students aged 16) and *Advanced* (for Secondary School students aged 17 or 18 or students who have been for 2 yrs in regular employment with concurrent instruction at senior or advanced part-time courses). The courses must extend over at least 2 yrs and the senior part-time course should normally extend over 3. The Certifs and Diplomas relating to Senior and advanced courses respectively are known as *Ordinary* and *Higher*. The *Higher* Certifs and Diplomas exempt candidates from certain subjects of the Associate membership examn.

ROYAL AERONAUTICAL SOCIETY

Founded 1866 Address—7 Albemarle St, London, W 1

Membership is of two categories—technical (Students, Associate Fellows, and Fellows) and non-technical. *Associate Fellowship* (A F R Ae S) is reserved for those who have attained to an acknowledged position in the science of aeronautics, *Fellowship* (F R Ae S) for those who have attained to considerable eminence. Annual subsn 1 g, 4 gs, and 6 gs, according to class. Entrance for Assoc Fellows and Fellows, 3 gs. and 5 gs. *Library*, including large recent acquisitions due to grant from Carnegie U K Trust, available to non-members through the medium of the Central Library for Students, 9 Galen Place, W C 1. *Lectures*, fortnightly in winter. *Publications*, "Journal" and "Transactions."

INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907 *Address*—Watergate House, York Buildings, Adelphi, W C 2

Qualifications for (1) Ordinary Membership (M I A E) minimum age 25, having occupied during a sufficient period a responsible position in connexion with the practice of, or otherwise proved thorough knowledge of theory and practice of Automobile Engineering, (2) Associate Membership (A M. I A E) min age 23, having been trained as Engineer and subsequently employed for at least 2 yrs in practice and science of A E and being actually so engaged Persons suitably qualified may also join as graduates, associates, or affiliates Annual subsn 1 g to 4 gs according to class Prizes up to £25 for Papers by Graduates

INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec 21, 1922 *Address*—Abbey House, Victoria Street, London, S W 1

Membership (M I Chem E) qualifications minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer *Associate Membership* (A M I Chem E) candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn Alternative qualifications are also provided for Subscriptions of "students," graduates, and corporate members range from $\frac{1}{2}$ g to 5 gs

INSTITUTION OF GAS ENGINEERS

Founded 1863 Incorporated 1902 *Address*—28 Grosvenor Gardens, Westminster, S W 1

In 1923 a scheme for awarding grouped course Certificates, Ordinary and Higher, for success in Part-time day or evening courses, on lines similar to those for National Certificates in electrical and mechanical engineering (v *supra*) was adopted with the approval of the Board of Education Provision has also been made for granting *Diplomas* in Gas Engineering and in Gas Supply for success in an examination There are not at present any examns for admission to membership of the Institution

THE INSTITUTE OF MARINE ENGINEERS, INCORPORATED

Established 1889 *Address*—85 The Minories, Tower Hill, London, E 1.

Membership open to Engineers holding First or Second Class Sea-going certificates or those holding responsible or qualifying positions

and engaged in the science or practice of Engineering or shipbuilding, Associateship, to persons so engaged and at least 21 years of age, Graduateship, to those receiving training in such science or practice who have completed one year of such training, Student Graduateship, to those who have attended Technical classes for a year, are training for such science or practice, and have passed the Institute's examn. The examn (fee, 2s 6d) is held in London and the provinces in May in the following subjects: Theoretical Mechanics, Heat and Heat Engines, Machine Constn and Drawing, Applied Mechanics, Maths, English, Elec Engin. Entrance fee and annual subsn, 5s. to £1 11 6 according to grade of membership.

Library (over 3000 vols) and Reading Room. Lectures during winter session. Gold Medal and other awards for Essay competitions.

Lloyd's Register Scholarships. Three of £100 p a tenable for 3 yrs in a University or College (day classes), open for competition, by examn, to British subjects, aged 18-23, who are Graduates or Associates of the Inst, apprentices or junior engineers, not necessarily connected with the Inst, who have served at least 2 yrs in a commercial engineering workshop and until the time of application have been employed at engineering either ashore, afloat, or at College with a view to entering upon the business of Marine Engineering. The examn is held about end of June each year in various centres to suit the residences of candidates in Great Britain.

INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter 1910. *Address*—5 Adelphi Terrace, London, W C 2.

Principal qualifications for Membership: minimum age 30, having served apprenticeship in naval architecture or marine engineering and subsequently been engaged in such occupation and having held a post of primary responsibility for 5 yrs or more. Qualifications for Associate Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates 25. Students 18-25. Entrance fee and annual subsn, 2 gs each, except for students, who pay subsn 15s p a and no entrance fee. Distinctive letters, M I N A, etc.

Scholarships in naval architecture and marine engineering: upwards of 15, varying in value from £75 to £150 p a, offered for competition open to students and apprentices in firms engaged in shipbuilding industry and Royal dockyards, two for post-graduate research in naval architecture (value £250 p a and £150 p a respectively) are awarded on recommendation of Univ authorities.

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols, comprising principal works on shipbuilding, ancient and modern. Transactions, issued annually, constitute a permanent record for past 60 yrs of all important develop-

ments in shipbuilding and marine engineering: £3·3s. for current volume (issued free to members), £2 2s to 10s 6d for earlier numbers. Total membership about 2900, including many foreign naval architects of eminence

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890 *Address*—92 Victoria Street, London, S.W 1

Qualifications for Membership (M Inst M and Cy E) minimum age 25, either holding a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or holding a permanent appointment as Deputy Engineer or Surveyor or the like and having passed the examn of the Instn or obtained equivalent Degree or Diploma, and in the case of deputies, etc, testimony of professional ability and experience justifying election. Qualifications for Associate Membership (A M Inst M and Cy E), minimum age 22, having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineer Asst or Resident Engineer or the like under a Public Authority, and having passed the examn of the Instn or satisfied the Council that he has equivalent engineering qualifications. A candidate for election as student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articled pupil to or hold an approved appointment with an Engineer or Surveyor to a Public Authority.

Entrance fee for Member and Assoc Member, 1½ g, £1 5s, subsn, 2 gs, 1½ g. Student's subsn, 1 g.

Examinations are held in London in April and Oct. Examns are also held in Scotland, Ireland, India, S Africa, and other parts of the Empire. Applications receivable up to Nov 1 and May 1. Three certificates are awarded: (a) Testamur for general proficiency in work of a local govt engineer and surveyor, (b) certificate in Town Planning, (c) certificate in County and Highway Engineering for specialized knowledge of road and bridge engineering and highway management and administration.

Qualifications for admission to the examns: minimum age 21, certificate of having passed the matricn examn of some University in the British Empire or an Examn of similar standard approved by the Council, fees—(a) 4 gs, (b) or (c) 1½ or 3 gs.

Inquiries about examns in India and S Africa may be addressed to M Lea, Chief Engineer, Municipal Office, Karachi, India, and T W Stainthorpe, Irrigation Dept, P O Box 399, Pretoria, Transvaal, respectively.

Publications *Journal*, fortnightly, 2 gs p a, *Town Planning Conference* 1913, 10s 6d, *Handbook* containing lists of Members, Regns, etc, 2s 6d, and several others.

INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908, and incorporated 1909 as "The Concrete Institute."

Address—Abbey House, Victoria Street, London, S W 1 *Telegrams*—Coninst, Sowest, London Branches Lancashire and Cheshire, Western Counties To be formed in 1924 Birmingham, Leeds and Bradford, Glasgow and Edinburgh, Calcutta and Bombay, Johannesburg, and Christchurch, New Zealand

Admission to the class of Member is open only by examn., through the Graduate and Associate-Membership classes. Admission to Associateship is direct, but candidates must be Fellows either of the R I.B A. or Society of Architects, or must be of equivalent professional standing

Publications *The Structural Engineer*, monthly, 1s 2d post free, Yearbook, 3s 8d post free, numerous books on technical subjects

X

THE BAR IN ENGLAND AND WALES

THE right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W C 2) provide, *inter alia*, as follows:

Admission of Students The conditions include (i) having passed any examn held by any Univ in the British Dominions, approved by the Council of Legal Educn, which entitles to a degree or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education, (ii) satisfactory evidence of good character, (iii) declaration that the candidate will not "directly or indirectly apply for or take out any certificate to practise, directly or indirectly, as a Pleader or Conveyancer or Draftsman in Equity, without the special permission of the Masters of the Bench," and is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law

Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those otherwise than as. . ." The Schedule of approved Prelim examns includes those numbered in the list on p 593, as 1, 2, 3, 5, 6, 8 (a) (b), 9 or 10 (subject to provisos), 18 (according to standard applicable to students whose native language is English), 20, 21. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement.

Keeping Terms This is done by eating dinners 6 days in each of 12 terms (members of Univs of the U K 3 days). There are 4 terms in each year.

Education and Examination Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Four examns for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections. (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Real Property and Conveyancing or Hindu and Mohammedan Law or Roman-Dutch Law, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7. A student who has passed an examination in Roman Law, forming part of a qualifying examination for a Univ degree, may be excused the examination in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee, $\frac{1}{2}$ g each);

5 to 8 (the Final examination) must be taken together (fee, 2 gs.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I and II. of the Final Examination Pass List are arranged in order of merit. A Certificate of Honour is granted to those in Class I. at the Final examination. Prizes of £50 each may be awarded for the best students (not over 25 yrs of age) in Sections (2) and (3), and a Studentship of 100 gs p a tenable for 3 yrs to the best student (not over 25 yrs of age) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any Terms, not exceeding 2, that may remain to be kept by him.

Calls to the Bar Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examinations, etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils of High Courts in India, certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England* (including interruptions caused by war service).

Fees On admission application, 1 g , stamp duty, £25 , lecture fee, 12 gs , admission fees, £20 or £21. On Call stamp duty, £50 , composition for annual dues, £12 , call fees, £38 (Gray's), £40 (Lincoln's) £50 (Middle or Inner)

SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, WC 2. All persons, except some Colonial Solicitors, are subject to Final examination at conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs Act, 1877) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem Maths, Geog of Europe, and Hist of England, Latin, and one or (if Algebra and Elem. Geom are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn or other corresponding examns (or examns accepted as exempting therefrom) of any Univ of the U.K., to Utter Barristers in England, and to persons who have passed the examns.

numbered in list on p 593 as 1a, 2, 3, 4a, 8 (a), 9, 9a, 10, 10a, 16 (First-Class or Senior certif), also *provided* the candidate passed in Latin, and all the prescribed subjects were taken at one time, and the regus, character, and standard of the examn remains as in July 1920, the following 1, 1b, 5, 6, 7 (Certif A), 8 (b), 13, 14, 24 The list of exemptions is now (Jan 1924) being revised

Service under Articles (stamp duty, £80) is normally for 5 yrs This may be reduced (1) to 3 yrs for graduates in Arts or Laws or Science of any Univ of the U K, English Barrister of less than 5 yrs' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland, (2) to 4 yrs for persons who have (a) passed examns Nos (v list on p 593) 1, 1a, 1b, 2, 3 (1st Division), 4a, 6 (1st Division), 13 (with Hons), 24, if the conditions of the last-mentioned proviso were fulfilled, or (b) before entering into Articles attended for 1 yr the approved curriculum of study at the Law Society and passed a satisfactory examn therein, or (c) before entering into Articles passed examn No 6 (Latin being taken), and subsequently attended, to the satisfaction of the Univ, the curriculum for the Interim LL B of Leeds, Liverpool, or Sheffield, and passed Interim LL B examn.

An *Intermediate* examn (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (1) before or after entering into Articles have passed the examn for the B C L or LL B at any of the Univs of England (except Bristol) and Wales or at the Univ of Dublin, or (2) before entering into Articles have taken Honours in the Final Honour School of Jurispr at Oxford or in the Law Tripos at Cambridge. Exemption from the whole of this examn in consideration of circumstances connected with the war is obtainable under certain conditions (v. sec 2 of Solrs. Act, 1918).

The *Final* examn (fee, 10 gs) is held in March, June, and Nov. Prints of the Questions set at this and at the Interim are obtainable from the Law Society.

THE SOLICITORS ACT, 1922. Section 2 provides that a person articulated to a solicitor after Dec 31, 1922, shall not be admitted to the Final Examn unless he satisfies the Law Society that he has, during a period of one year, complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ in the U K, after passing a Final Examn in law at such Univ., or (2) applies to be admitted to the Law Society's Final Examn after satisfying the requirements of Sect 4 of the Solrs Act, 1860 Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy the Law Society that such attendance is for geographical or other reasons impracticable

Provided and Approved Schools The Society's Law School in London, the Univs of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong

College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ College, Exeter, Univ College, Southampton [*Note* —At the present time (Dec 1923) the Council of the Law Society have under consideration the approval of additional Schools]

XI

MEDICAL AND DENTAL QUALIFICATIONS
AND STUDIES

A. MEDICAL QUALIFICATIONS

Address of the Registrar, General Medical Council—44 Hallam St ,
Portland Place, London, W 1 *Telegrams*—Genmedicum, Eusroad,
London *Addresses of Registrars of Branch Councils*—20 Queen St ,
Edinburgh , 35 Dawson St , Dublin

No person is recognized by law as a duly qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council* Below are lists of the qualifications so registrable—obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn in Medicine, Surgery, and Midwifery For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc , in which it was obtained

(a)

Royal College of Physicians, London—F , M , L , R C P Lond
 Royal College of Surgeons of England—F , M , R C S Engl
 Royal College of Physicians of Edinburgh—F , M , L , R C P Edin
 Royal College of Surgeons of Edinburgh—F , L , R C S Edin
 Royal Faculty of Physicians and Surgeons of Glasgow—F , L , R F P S
 Glas
 Royal College of Physicians of Ireland—F , M , L , L M , R C P. Irel
 Royal College of Surgeons in Ireland—F , L , L M , R C S Irel
 Apothecaries' Soc of London—L M S S A Lond
 Apothecaries' Hall, Dublin—L A H Dub
 Each Univ in Great Britain or Ireland—M D (Ox , D M) , M B (Ox ,
 B M) , Ch B (or B Ch or B S) , Ch M (or M Ch or M S or C M) ,
 Dub . L Med., L.S
 Registrable Diplomas or Certificates for proficiency in Sanitary Science,
 Public Health, or State Medicine which may be added to qualifica-
 tions already registered but do not admit primarily to the Register
 D P H (R C P S Engl , R C P S Edin , and R F P S Glas , R C P S
 Irel., and each of the Univs of Great Britain and Ireland, except
 London)
 B Sc (P H) Birm
 B Hy., D Hy Durh
 M.D (S.M.) Lond
 M H L'pool
 B Sc. (P.H.), D Sc (P H.) Edin , B.Sc. (P H) , D Sc (P.H) Glas

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San Sc.

New Rules for obtaining qualifications in Public Health were adopted on May 22, 1922, and came into operation as from Jan 1, 1924. They revise the curriculum and extend the period between the obtaining of an original qualification and a Diploma to not less than 2 years

(b)

Australia. M B, M D Syd, Adel, or Melb, Ch M Syd, B S, M S Adel, B S Melb

Canada M D Dal, Laval, McG, Mont, C M Dal, McG, L M S New Brunswick Provincial Council of P & S, or Nova Scotia Provl Med Board, or Prince Edward Island Med Council

M C P & S Alta, or Manlt, or Ont, or Sask

As qualifications which may be added (1) to M C P & S Ont—M B, M D, C M of Queen's, M B, M D Tor, or M D Western, (2) to M C P & S Manlt—M D, C M Manlt

Ceylon L M S Ceylon Med Coll

Hong-Kong M B, B S, M D, M S Hong-Kong

India M B, B S All.

L M S, M B, B S, M D, M S Bom

L M S, M B, M D, M S, M O Calc

M B, C M, M B, B S, M D Mad

L M S, M B, M D, M S Panj

M B, B S Lucknow

Malta M D Malta

Newfoundland L M S Nfld Med Board

New Zealand M B, Ch B, M D N Z.

South Africa

M B, Ch B Cape Town

M B, Ch B S Africa

M B, B Ch U Witwatersrand.

Straits Settlements L.M.S. Singapore Med Coll

(c)

Degrees of (1) Doctor of Med and Surg of all the Royal Italian Univs, (11) Bachelor of Med. and Doctor of Med of the Imperial Univs of Japan, and Bachelor of Med of any Govt or Prefectural Special Med Coll or of a private special Med. Coll designated by a Minister of Educn of the Empire of Japan.

B. REGISTRATION OF MEDICAL STUDENTS

The Regulations (including the modifications which came into force on Jan 1, 1923), obtainable from the Registrar, 44 Hallam St, London, W 1, post free 1s, prescribe Registration of Medical Students within 15 days of the commencement of their professional studies.

For this purpose they should apply in the prescribed form, obtainable from any of the Registrars (*v. supra*), submitting evidence of having—
(a) attained the age of 17, (b) passed a Preliminary examn in General Education recognized by the Council, (c) passed also an examn in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies, (d) commenced Medical study at an approved Univ or Medical School

As regards (b) the Council recognizes no examn which is of standard lower than that of Univ Matricn examns in the faculties of Arts and Pure Science, and requires that the examn certificate shall bear evidence that the candidate has passed in English, Elem Maths, a language other than English, and an additional subject or subjects as required by the regulations of the particular examn, to be chosen from the subjoined list, viz Hist, Geog, Physical Sc, Nat Sc, Latin, Greek, Hebrew, French, German, or other language accepted by the Univ for the purpose. Applicants from one of the recognized Colonial Univs must produce evidence that they have passed the complete Matricn examn for the faculty of Arts or of Science (Pure) of the Univ or College from which they come, or an examn accepted as equivalent thereto, and that the examn passed is accepted by one of the Univs of Great Britain or Ireland for similar purposes. Applicants from one of the recognized Indian Univs must produce evidence that they have passed the Matricn examn of the Univ from which they come, or an examn recognized as equivalent thereto, and, in addition, the Preliminary Scientific or Intermediate examn in Arts or Science of their own Univ. Applicants from Foreign Univs should submit their credentials to the Registrar

As regards (c), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn standard formed part of the (b) examn, but in the case of an applicant from one of the recognized Colonial Univs or Colleges, the Council will accept a certificate that an examn in Physics and Chem (and, in addition, *Biology*, *v infra*) equivalent in standard to the First Professional examn in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs the Preliminary Scientific or Intermediate examn in Arts or Science of his own Univ will suffice if these subjects are included in his Pass certificate

As regards (d), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (*v supra*) have been recognized as entitling to registration in the U K

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn in this subject immediately after his registration as a student

C. DENTAL QUALIFICATIONS

Under the Dentists Act 1921 no person who is unregistered may practise dentistry without rendering himself hable to prosecution.

A new body named the Dental Board of the United Kingdom has been constituted which is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St, London, W 1

The following lists show the registrable qualifications obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries.

(a)

Royal College of Surgeons of England—L D S, R C S Eng.

Royal College of Surgeons of Edinburgh—H D D, L D S, R C S Edin

Royal Faculty of Physicians and Surgeons of Glasgow—H D D, L D S, R F P S Glas

Royal College of Surgeons in Ireland—L D S, R C S Irel.

Univ of Birmingham—M D S, B D S, L D S U Birm

Univ of Bristol—B D S, L D S U Brist

Univ of Durham—L D S U Durh

Univ of Leeds—M D S, B D S, L D S U Leeds

Univ of Liverpool—M D S, B D S, L D S U L'pool

Univ of London—B D S, M S (Dent) U Lond

Victoria University of Manchester—M D S, B D S, L D S U. Manc

Univ of St Andrews—L D S U St And

Univ of Dublin—M D Sc, B D Sc, L D Sc, U Dubl

National Univ of Ireland—M D S, B D S N U Irel

Queen's Univ of Belfast—L D S Q U Belf

(b)

Victoria, Australia—L D S Vict

Univ of New Zealand—B D S U N Zealand

Univ of Sydney—B D S U Sydney

Univ of Melbourne—D D Sc, B D Sc U. Melb

(c)

Diploma in Dentistry granted to Candidates in Medicine of the Univs of Brussels, Ghent, Liège and Louvain, after examn by a Belgian Provincial Medical Commission—Dent Dip Belg

Degree of Bachelor of Medicine (Igakushi) in the Dental Division of the Tokyo Imperial University—M B (Dent Div) Tokyo Imp U

Diploma of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Tokyo Professional School of Dental Surgery—B D S Tokyo Prof Sch.

Diploma of Bachelor of Dental Surgery (Shukwa-Igakushi) of the Nippon Professional School of Dental Surgery—B D S Nippon Prof Sch

Degree of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Osaka Professional School of Dental Surgery—B D S Osaka Prof Sch.

D. REGISTRATION OF DENTAL STUDENTS

I Registration is carried on at the Council Office in London in the same manner as that of Med students, and is subject to the same regns as regards age and Prelim examns, but professional study may commence by pupilage with a Registered Dental Practitioner

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics

III Two years' *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs of professional study

IV The necessary instruction in Mechanical Dentistry, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of regular pupilage in Mech Dentistry to a Registered Practitioner, prior to passing the prescribed Preliminary and Scientific examns, he may be allowed to antedate for a period not exceeding 1 yr prior to the passing of these examns

V It is recommended that instruction in Dental Mechanics be taken at a recognised Dental Hospital and School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School

Schools at which Dental Study may be commenced. Birmingham D. Hospl, Bristol, Royal Infirmary, Genl Hospl, Dublin, D Hospl of Ireland; Dundee D. Hospl, Edinburgh D Hospl, Glasgow D Hospl, Leeds D Hospl, Liverpool D Hospl, London, Guy's Hospl, D School, London Hospl D School, Univ Coll. Hospl D School, Royal D Hospl, Manchester D Hospl, Newcastle-upon-Tyne D Hospl, Sheffield Royal Hospl, Roy Coll of Surg in Ireland, D Department of any Univ of the U K

E. RECIPROCAL RECOGNITION

The States, Presidencies, and Provinces in which the registrable medical qualifications specified under A (b), (c), are granted all allow practitioners with qualifications registered in the U K to register without further examn. There are also other Colonies, *e g* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

[A Report (5th edition pubd in Jan 1921) as to the conditions under which Med. and Dent practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s 6d. (post free U K 2s 10d., elsewhere in the Empire 3s. 1d., outside 3s. 4d.) It contains, among other matters, the designa-

tions and addresses of the persons to whom application should be made for forms and further information]

F. POST-GRADUATE MEDICAL STUDIES

In London, in addition to the General Hospital Medical Schools which provide to a limited extent for qualified practitioners, there are the West London Post-graduate College at the West London Hospital, Hammersmith, with a staff of 37 regular lectrs and demrs, the North-East London Post-Graduate College at the Prince of Wales' Hospital, Tottenham, and the London School of Clinical Medicine at the Seamen's Hospital, Greenwich, as well as certain special hospitals where excellent arrangements are made for post-graduate work in particular subjects. The Fellowship of Medicine (1 Wimpole St, London, W 1) formed in 1918, promotes and advertises the provision of facilities for post-graduate work and assists in the cultivation of mutual hospitality between the medical profession at home and their medical brethren overseas. In co-operation with 40 London general and special hospitals, post-graduate courses in all the special departments of medical science are arranged, as well as short intensive courses at regular intervals during the year.

Post-graduate courses are also provided by other Univs, notably Edinburgh and Glasgow.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

Address of the Secy., Conjoint Examining Board in England, 8-11 Queen Sq, Bloomsbury, London, W C 1. Applications for admission to the Board's examns should reach the Secy at least 14 days (in the case of the L D S Professional examns, 21 days) beforehand. Agency for the sale of Books of Questions set in past years (9d each)—Taylor & Francis, Red Lion Court, Fleet St, London, E C 4.

Examinations for the Diplomas of LICENCE OF THE R C P of London and MEMBER OF THE R C S of England are held ordinarily in Jan, April, July, and Sept or Oct. Candidates must have passed a Prelim. examn in general education recognized by the Board, and must have passed before commencing the 5-years curriculum of professional study, *a Pre-Medical examn in Chemistry and Physics* conducted or recognized by the Board. Before admission to the Professional examns (known as the *First* and *Final*) they are required to produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn (fee, 10 gs) comprises Section I, (a) Anatomy, including Histology and Embryology, (b) Physiology, including Bio-Chemistry, Section II, Pharmacology, Practical Pharmacy, and Materia Medica. A candidate who has passed an examn in the subjects of Section I. or of either part of Section I. and of Section II.

in the examn for the degree in Medicine conducted at a Univ recognized by the Board will be exempted from further examn in such subject or subjects. The subjects of the *Final* Professional Examn are Section I (fee, 4 gs.), (a) Pathology, including Morbid Anatomy, Morbid Histology, and Clinical Path, (b) Bacteriology, Section II—Part I (fee, 10 gs.), Medicine, including Med Anatomy, Forensic Med, and Public Health, Part II (fee, 10 gs.), Surgery, including Surg Anatomy and the use of Surg Apphances, Part III (fee, 6 gs.), Midwifery and Gynæcology. A candidate who has passed an examn for a degree in medicine in the subjects of Pathology and Bacteriology at a Univ recognized by the Board is exempted from Section I.

Students of recognized Univs in England, Scotland, and Ireland, who have passed examns for a degree in Medicine at their Univs in the subjects of the First Professional Examn, may enter for the Final at the expiration of two years from the date of passing in Anatomy and Physiology on production of the required certificates.

Members of certain recognized Indian, Colonial, and Foreign Univs, who have passed examns for the Degree of Doctor or Bachelor of Medicine or Surgery in the subjects of the First Professional Examn, may present themselves for the Final under special conditions. A holder of the diploma of the National Board of Examiners of the U S A can enter for the Final on producing the required certificates of 5 years' study from one of the Univs recognized by the Conjoint Board. The Board also grants Diplomas in Public Health, in Psychological Medicine, in Ophthalmic Medicine and Surgery, and in Tropical Medicine and Hygiene. Candidates must hold a Medical qualification registrable in the U K, or be Graduates in Medicine of a recognized Indian, a Colonial, or a Foreign Univ.

The regulations affecting candidates who were registered as medical students before Jan 1, 1924, are given in the last and previous editions of this *Yearbook*.

For admission to the MEMBERSHIP OF THE R C P (fee, 40 gs., less Licence fee, if any, already paid) the minimum age is 25, and a candidate must satisfy the Censors' Board as to his moral character and conduct and pass an examn of such nature and extent as may be determined by the Board. If under the age of 40, he must prove a knowledge of Latin, and of either Greek, French, or German, in addition to proving his professional acquirements. If he has not passed the examns required for the Licence, he must be a registered practitioner who *either* has obtained the degree of Doctor or Bachelor of Medicine at a Univ in the Empire or a foreign qualification entitling him to practise Medicine or Surgery in the country where it was conferred, after undergoing courses and examns which the Censors' Board consider sufficient, *or* has attained the age of 40, and can produce testimonials sufficient to satisfy the Board, and subsequently the Fellows, at a General Meeting, that he ought to be admitted to examn.

The FELLOWSHIP of the R.C.P. is conferred by election on a member of the College of not less than 4 yrs' standing.

Examns for the FELLOWSHIP OF THE R C S are held twice yearly—the 1st Prof in June and Dec, and the 2nd Prof in May and Nov.

Fees, first examn , 8 gs , 2nd, 12 gs , admission to Fellowship (minimum age, 25), 10 gs , for those who are not M R C S Eng The *First* examn (in Anat and Physiol) is open to M R C S Eng , and, on production of certain certificates involving work extending over 3 winter sessions, to (a) candidates who have passed the First Examn , Pts I , II and III , and the Second examn for the L R C P Lond and M R C S Eng , and (b) members of Univs recognized under the Regns of the Board The *Second* examn (in Surgery, including Surg , Anat , and Path) is open, provided they have passed the First, to (a) M R C S Eng who have been engaged not less than 6 yrs in the study or study and practice of the profession, and (b) persons possessing the registrable Surg and Med degrees of the under-mentioned Univs , who have been engaged after obtaining such degrees in the study or study and practice of the profession for 4 yrs , including 1 yr. spent in attendance upon the Surg Practice of a recognized Hospl or Infirmary the Univs of the U K , Dalhousie, Laval, McGill, Manitoba, Queen's (Kingston), Toronto, Western (Ont) , Adelaide, Melbourne, Sydney, N Z , Bombay, Calcutta, Madras, Panjab, Allahabad, Hong-Kong, Italian Royal Univs and Imperial Univ of Japan

All the above examns are open to WOMEN, who are also eligible, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges, for the Diplomas of L R C P , M R C S , and F R C S

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SUR- GEONS OF GLASGOW

Joint examinations, open alike to men and women, are held in Edinburgh (in 1923-24—October, April, July), and in Glasgow (in 1923-24—March) for the DIPLOMAS IN MEDICINE, SURGERY, AND MIDWIFERY of these three bodies Applications for admission should reach the Inspector—in Edinburgh, D L Eadie, 49 Lauriston Place , in Glasgow, W Hurst, 242 St Vincent St—at least one week before

Examns for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs , or for each Part, 6 gs) are held early in Oct in Edinburgh and early in May in Glasgow

The R C P. Edin may admit to examn. for its single qualification—LICENCE—any candidate who has a Surg qualification recognized for the purpose Fee, 15 gs Examns held every month, except Sept and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election Candidates must hold a Licence of a British or Irish College of Physicians or Degree in Med of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction Fee, 35 gs , or, if a L R C P Edin , 20 gs A member of 3 yrs ' standing may be elected FELLOW Fee,

38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols and Research Laboratory.

For admission to the FELLOWSHIP OF THE R C S. Edin candidates must pass an examn (fee, £45, or for L R C S Edin, £35) in (a) Principles and Practice of Surgery, including Surg. Anat., (b) Clinical S, (c) one of the following—including clinical or practical as well as written and oral tests—S Path and Operative S; Ophth S; Aural, Nasal, and Laryng S; Obst S; Gyn, Adv Anat; Dental S. Qualifications for admission to the examn (which is now open to women) : minimum age, 25 yrs, 2 yrs' study and practice of the profession after obtaining one of the following, or other approved qualifications in S those of R C S. Eng, R C S I, R F P S Glas., Surgical degrees of the Univs of the U K and Canada, Adelaide, Melb, Syd, N.Z, Bom, Calc., Mad, Panj, L M S S A Lond, and L A H Dub registered under the Med Act, 1886

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Examns for the LICENCE OF THE R F P S Glasgow can be arranged at any time of the year, except August Fee, 15 gs Qualifications for admission : Licence of one of the Colleges of Physicians of the U K or Colonies, or of the Soc of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing the qualifying examns of these bodies; Degree in Med of a Univ of the British Empire

Examns. for the FELLOWSHIP of the R F P S Glasgow are held in Jan, April, July, and Oct. 14 days' notice required Admission to the Fellowship (fee, £30, or for L R F P S, £25; additional, qualifying to hold office, £20, or for L R F P S, £15) is either by examn and subsequent election by ballot or by election in virtue of high distinction in Med. Science or Practice of persons not less than 40 yrs of age who have been qualified for at least 10 yrs Not more than 4 Practitioners are admitted by the latter method annually Candidates must be proposed by 2 Fellows of the Faculty Special regns for candidates who have served in the Great War

All examns of the R F P S. are open to women as well as to men.

ROYAL COLLEGE OF PHYSICIANS AND ROYAL COLLEGE OF SURGEONS IN IRELAND

Address of Committee of Management of the Conjoint Board—Royal College of Surgeons, Stephen's Green, Dublin Registrar of the R C P — 6 Kildare St., Dublin

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med Council (*v supra*) *re* Prelim. examn and Registration of students. The *First Prof* examn (fee, 15 gs) comprises Chem. and

Physics and Biol The *Second* (fee, 10 gs), Anat. and Physiol and Histol The *Third* (fee, 9 gs). (a) Path., (b) Mat. Med., Pharmacy, Therap., (c) Forensic M. and Pub Health. The *Final* (fee, 6 gs): (a) Med., including Fevers, Mental Diseases, and Dis. of Children; (b) Surg., including Operative and Ophth S; (c) Midw. and Gyn., Vaccn., and Dis. of Newborn Children.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U K, and also the Univ of Cape Town and the Witwatersrand Univ, Johannesburg. Institutions recognized for certification of studies include in Canada—the Univs of Dalhousie, Laval, McGill, Toronto, Trinity Coll and Vict Coll Tor.; Bishops' Coll., Montreal, R C P.S., Kingston, Trinity Med Sch, in Australia—Univs of Melb and Syd, Adelaide Infirmary, Melb. Hospl, Alfred Hospl, Syd Infirmary, Prince Alfred Hospl., Genl Hospls of Hobart and Launceston, in N Z—Dunedin Hospl; in Cape Town—S African Coll, in India—Med Colls of Bengal and Madras, the Ceylon Med Coll

Candidates who have passed in any of the required subjects at examns conducted by any Licensing Body recognized by the R C P and R C S may be exempted from further examn therein.

Examns for the LICENSES OF THE R C P I are held early in Feb., May, and Nov, and at specially appointed times That for the *License in Medicine* (fee, 15 gs, or for Special examn, 20 gs) comprises Practice of M, Clinical M, Path, Med Jurispr, Midw, Hygiene, Therap It is open to a Registered Med Practitioner of the U K or on the Colonial or Foreign List of the Gen Med Council if the College be satisfied as to his character and his courses of study and examns passed by him. The examn for the *License in Midwifery* (fee, 8 gs, special, 12 gs) is open to Registered Med Practitioners (a) of the U K who have (1) obtained the Lic in Med of the College or have passed the examn. therefor, or (11) satisfied the College as to character and as to course of study pursued and examns passed, (b) of 5 yrs' standing who have so satisfied the College Entrants under (b) are exempt from the examn. by printed questions

Examns for MEMBERSHIP OF THE R C P I are held in Feb, June, and Nov, and at specially appointed times Applications for admission should reach the Registrar by 2nd week in Jan, May, Oct Fee, 35 gs, or for L R C P I, 20 gs; extra for Special examn, 10 gs The examn. is open to Registered Med Practitioners (a) who have held for at least a year a License in Med of a College of Physicians of the U K, or a degree (B or D) of any Univ in the Empire recognized for registration purposes by the Gen Med. Council, or (b) who hold a foreign qualification, entitling to practise Med and Surg. in their own countries, obtained after a course of study deemed by the College to be satisfactory. The testimony of a fellow or member of the College or a F.R.C.P Lond or Edin as to professional conduct and moral character is also required The Diploma of membership carries with it the License if this has not been already obtained. Exemption from part of the examn may be allowed by the Court of Examiners on a consideration of evidence that a candidate has "improved the Art or extended the Science of Med"

For admission to the FELLOWSHIP OF THE R C P I (fee, £35, stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27 It is open to women

The R C S I holds examns (fee, 5 gs) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board They are open at the discretion of the Council to Registered Med Practitioners who have passed through a course of study and examns equivalent to those required by the Conjoint Board and an examn in Arts recognized by the Gen Med Council. Fee for Licence, 25 gs, including 5 gs examn fee

The R C S I also holds examns for a DIPLOMA IN MIDWIFERY Candidates must have a registrable qualification and produce certificates of attendance on Lectures, 6 months' Hospital practice and conduct of 30 labour cases Fee, 15 gs

The examn for the FELLOWSHIP OF THE R C S I is in 2 parts Fee for each, 5 gs For admission to the Final part a candidate must be a Licentiate or Graduate in Surg of a Univ or licensing body recognized by the Gen Med Council Minimum age, 25 Fee on admission to Fellowship, 40 gs, or for Licentiate of the College, 25 gs

THE SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617 *Address*—Water Lane, Queen Victoria St, London, E C 4

Examinations for the Diploma of Licentiate in Medicine, Surgery, and Midwifery (L M S S A) are held in London, the Primary examn (fee, 5 gs) in Elem Biol, Chem, Materia Medica and Pharmacy, Anatomy, Physiology, and Histology in Jan, April, July, and Oct, the Final (fee, 15 gs), monthly, except in Sept For admission to either, certificates are required, showing in detail the course of Medical study pursued by the candidate with particulars of instruction received, practice and operations performed, and offices held The course covers 5 yrs in all Exemption from the Primary subjects may be obtained by proving that equivalent examns recognized by the Society have been passed

THE ROYAL COLLEGE OF VETERINARY SURGEONS

Address—10 Red Lion Sq, London, W C 1 *Affiliated Colleges*—Royal V College, Camden Town, London, N W 1, The V School of the University, Liverpool, Royal (Dick) V College, Summerhall, Edinburgh, The V. College, Buccleuch St, Glasgow, The V College of Ireland, Ballsbridge, Dublin

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen Med Council, v *supra*) of recognized Preliminary Educational examns, attend courses in one of the Affiliated Colleges during 4 yrs as follows. 1st year (from which exemption is

given under certain conditions to graduates, in Arts, Science or Medicine) Anat of Domestic Animals, Chem and Elem Physics, Biol., Elem. Zool, and Botany 2nd year Anat of Dom Animals, Physiol and Histol, Stable Management, Shoeing, etc 3rd year Path, Bact., and Protozoology, Mat Med, Tox, and Practical Pharmacy, V. Hygiene and Dietetics 4th year Principles and Practice of V. Med and V Surg and Obst, Meat Inspection An examn (fee, £5) is held at the end of each year's course

Qualifications for *Fellowship* 2 yrs' practice after obtaining the membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns Fee, 15 gs

For admission to the examn for the *Diploma in V State Medicine* it is necessary after graduation as M R C V S to take a special course at a V School and undergo training under a County or Municipal V Inspector Fee, £5 5s

THE ROYAL SANITARY INSTITUTE

Founded 1876 Incorporated 1888 *Address*—90 Buckingham Palace Road, London, S W 1 Branches in New Zealand and S Africa

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (nearly 5000) include Medical men, Engineers, Architects, Municipal Officers, etc

Qualifications for (1) Membership evidence of attainments of standard indicated by certain of the Inst's own certificates, a Degree of a University, or Diploma of a Medical Corporation recognized by the Council, San Science certif of Surveyors' Instn (v p 588), Testamur of the Instn of Munic and County Engineers (v p 562), (2) Associate-ship the Inst's certif for Sanitary Inspector or other evidence of attainments of similar standard Annual Subsn for Members, 1½ to 2 gs, Associates, 15s to 1 g Fellows are elected from Members of at least one year's standing Authorized signatures M R San I, A R San I

Examinations held by the Institute (fee, 4 to 5 gs) (1) Sanitary Inspector, under P H Act, 1875, (2) Advanced Knowledge of Inspectors' duties, (3) Inspectors of Meat and Foods, (4) Smoke Inspectors, (5) Sanitary Science as applied to Buildings, etc, (6) Health Visitors and School Nurses, (7) Maternity and Child Welfare Workers, (8) School Hygiene, including Elem Physiol, (9) Tropical Hygiene for Inspectors The Institute's Certificates (Cert R San I) are well known throughout the United Kingdom and the Overseas Dominions, and are recognized by Public Authorities as qualifications for appointments

The examns are held in London and in numerous other towns in the U K and in Canada, Australasia, S Africa, Hong-Kong, West Indies, Straits Settlements Examns for San Inspectors are held in Bombay and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn Fees, 3½ to 5 gs

The Parkes Museum, founded 1876, became part of the Inst in 1888 It serves as a public demonstrating school The Inst has a large Library, including many foreign works Sessional meetings, about ten yearly, are held in London and other large towns

Congresses and exhibitions have been held almost every year since 1877

Publications *Journal* and numerous pamphlets

ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886 Incorporated 1892 *Address* — 37 Russell Square, London, W C 1

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs and Medical Corporations Fees for Laboratory Instruction 6 months, 22 gs , P H Admn , 15 gs , Fever Hosp Admn , 3 gs , Special Lab Fees , Chem or Bact , monthly, 6 gs , 3 months, 15 gs Courses of free lectures are also given in the Lecture Hall of the Inst Special lectures open to Fellows, Members, and Students Subscription, 1 g p a

The Laboratories are recognized as a place of research in connexion with the Best Memorial Fellowships Researches and Clinical Examns are undertaken for Public Bodies and Med Practitioners Culture media of all descriptions are supplied

Reference Library containing all important P H Works, Govt Reports, etc

Congress to be held at Bordeaux, Whitsun, June 4-9, 1924

Publication *Journal of State Medicine*, monthly, 2s

INSTITUTE OF HYGIENE

Founded 1903 *Address* — 33-34 Devonshire St (Harley St), London, W 1

Examinations for Certificates and Diplomas (advanced) are held at various universities throughout the U K on the second Saturday of Jan and of June each year Subjects General Hygiene, School H , Home Nursing and First Aid, Mothercraft, Food and Dietetics, Cooking, Physical Training, School Nursing, and Health Visiting Fee, 1 g to 2 gs Complete syllabus with list of Text Books, 2s Specimen questions, 1d

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M I H) respectively of the Inst

Public Lectures are regularly given throughout the year in the Lecture Hall The Inst has Laboratories for analytical and bacteriological investigation, and a Museum of Hygiene open to the public free throughout the year

XII

THE INSTITUTION OF MINING AND METALLURGY

Founded 1892 Incorporated by Royal Charter 1915 Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron, and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist Address—Cleveland House, 225 City Road, London, E C 1 Telegrams—"Minanmet, London"

Qualifications for Membership (M Inst M.M.) minimum age, 30, having been for at least 5 yrs in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist, if born after Dec 31, 1894, a regular course of at least 3 yrs' study in pure or applied science Qualifications for Associateship (Assoc Inst M M) minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (a) 2 yrs if a graduate of the R S M or other mining college or school of equivalent standing, (b) 3 yrs, or such longer period as Council may determine, if a graduate of some other college or school, (c) 6 yrs in other cases The minimum age for admission as student is 18 A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology Entrance fee and annual subsn for Member, 5 gs each, Assoc, 3 gs Students pay subsn, 1 g (over 25—1½ g) p a and no entrance fee

General meetings for discussion of papers monthly, Oct–May Large Library, reading- and writing-rooms Publications *Bulletin*, monthly (£1 11 6 p a), and *Transactions* annually (£1 11 6 p vol.), may be purchased by non-members Gold medals, etc, are awarded by the Instn for promoting its objects The Instn is closely associated with the Royal School of Mines Secretary Charles McDermid, who is also Secy to the

INSTITUTION OF MINING ENGINEERS

Established 1889 Incorporated by Royal Charter 1915 Address—Cleveland House, 225 City Road, London, E C 1 Telegrams—Instmin, London"

The Instn's objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits" It is a federation of the Manchester Geol. and Mining Soc, the Midland Counties Instn.

of Engineers, the Midland Instn of Mining Engineers, the Mining Inst of Scotland, the North of England Inst of Mining and Mech E, the North Staffs Inst of Min E, and the South Staffs and Warwickshire Inst of Min E. There is no separate membership of the Institution apart from membership of one of the Federated bodies.

Conditions of admission to membership since Jan 12, 1916, include (a) regular education and training as a Min E, and 5 yrs' work in a responsible position in practical Mining, or (b) First-Class Certif of Competency under Coal Mines Act, and tenure of post as Manager, Asst Manager, Under-Manager, or Chief Surveyor, or (c) position or attainments rendering his membership desirable in the opinion of the Council. There are also Associate Members, Hon Members, Associates, and Students.

Publications Transactions (in which are included Procdgs of Federated Instns as well as those of the Instn itself), 64 vols. Price to non-members, 36s each for current volumes, back volumes at varying rates. Authorized signatures M I Min E, Assoc M I Min E, Assoc I Min E.

THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*—28 Victoria St, London, S W 1.

Qualifications (1) for Membership—minimum age, 21, being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs; annual subsn, 3 gs (if resident abroad 2½ gs). (2) For Associateship—maximum age, 24, being (a) Student of Metallurgy taking a course at a Univ, Univ College, or Tech School, or (b) pupil or apprentice in metallurgy or engineering, or (c) employed in some practical or scientific capacity in met or engin works. Annual subsn, 1 g. Initials denoting membership, M I S I, A I S I.

Meetings in May and Sept for reading and discussion of papers. Library, reference and lending, printed catalogue. Information Bureau, service not restricted to members.

Carnegie Research Fund—£20,000, interest on which is used for grants to assist metallurgists and students in conducting researches.

Publications Journal in 2 vols annually, *Carnegie Scholarship Memoirs*, 1 vol annually.

THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St, London, S W 1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Swansea, Sheffield.

Qualifications for Ordinary Membership (M Inst Met) : minimum age, 24 ; occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys Limits of age for Student Members, 18-25 Entrance fee and annual subsn for Ordinary Members, 2 gs and 3 gs Students, 1 g and 1 g Associate members of local sections pay a nominal subscription and do not receive the *Journal* *Fellows* (F Inst Met) are limited in number to 12 They are chosen by Council for having rendered eminent service to the Assocn

The Inst aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing, than with the production of metals from their ores The leading features of its work are the holding of sessions in the spring and autumn and an annual "May lecture" given by some acknowledged master of his subject, in addition a special "Practical lecture" is given annually in the autumn by an expert non-ferrous technician

The *Journal* contains in addition to the proceedings of all the meetings abstracts and reviews of all the more important current publications, British and foreign, bearing upon non-ferrous metals Price to non-members, £3·5s for the two annual vols (post free)

Library with all the current journals of interest to those concerned with metals *Nucleus* museum

Research is encouraged, directed, and even undertaken by means of a series of special committees, the most important being the Corrosion Research Committee, which began its work in 1910, and after receiving substantial help from the Govt Dept of Scientific and Industrial Research was augmented by the addition of representatives of several Govt Depts and Professional Institns Funds were provided by Sir George Beilby for enabling the Inst to reward an important research, still continuing, on "The Solidification of Metals from the Liquid State"

INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914 *Address*—Aldine House, Bedford St, Strand, London, W C 2

Conditions of admission to associate membership (A M Inst P T) since June 17, 1914, include (a) good general and scientific education, (b) at least 2 yrs' practical experience in a position (held at time of application) as petroleum technologist

Annual subscriptions Students 1 g, Associates 2 gs, Assoc members 2½ gs, Members 3 gs

Publications *Journal*, bi-monthly, 7s 6d. (free to members) Rules, etc, 4s *The Petroleum Industry*, 7s 6d.

XIII

THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882 Incorporated by Royal Charter 1891 *Address*—
Staple Inn Buildings, London, W C 1

Under the Patents and Designs Acts, 1907 and 1919, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1920.

Examinations are conducted or recognized by the Inst for the two purposes of Registration of P A 's and the admission to the Inst of Fellows, Associates and Students.

The Inst recognizes as Preliminary exams the Matricn examn of any Univ in the U K, the examns recognized by the Board of Educn as approved examns in respect of Secondary Schools, Nos 1a, 2, 4a, 8(a), 9, 10, 13, 15c, 16, of the list on p 593, and several others.

The Inst holds each year (1) Intermediate (fee, 2 gs), and (11) Final examns (fee, 3 gs), qualifying for Registration. Latest date for entry, April 1. Subjects of (1) A Patent Law and Practice, Designs, Trade-marks, Foreign Law, the reading of Mechanical Drawings, B Manufactures, Science, and the preparation of Mechanical Drawings. Subjects of (11) A Preparation of Specifications for British Colonial and Foreign Patents, B Interpretation of British Specifications. Candidates for admission to (1) must have passed one of the approved Prelim examns and (a) have served 3 yrs as a pupil or technical asst to one or more registered P A 's or (b) have so served for 2 yrs and attended a 2 yrs' course at an approved Tech Coll or had 2 yrs' approved practical experience, or (c) have so served for 1 yr and taken a degree at a Univ of the U K or attended a 3 yrs' course at an approved Tech Coll or had 3 yrs' approved practical experience, or (d) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (11) must have passed (1) and have served as above for a period of 2 yrs in excess of term prescribed under (a), (b), or (c) above, as case may be, or be entitled as in case (d).

Minimum age for membership of the Inst—25. Other qualifications. For Fellowship, (a) having ceased to be an Associate by reason of being in practice on own account as P A, (b) having passed Final examn, (c) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P A), (a) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst, (b) being pupil or asst of 3 yrs' standing of a Fellow or a Student attached to the Inst and having passed Intern Examn. For Foreign Membership having been established in practice as P A for a sufficient time not less than 3 yrs in a British Colony or Dependency or in a Foreign Country and neither having an office nor practising in the U K.

Minimum age for " Studentship "—18 Other qualifications being an articulated pupil of a Registered P A and having passed an approved Prelim examn

Fellows may use the initials C P A after their names

Entrance fee for Fellow, 3 gs , Assoc , 2 gs , Foreign Members, 2 gs , Student, 1 g Annual subs for Fellow, 3 gs ; other classes, 1 g

XIV

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Address—17 Bloomsbury Sq , London, W C 1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan , April, July, and Sept or Oct the *Qualifying* examn (fee, 12 gs), for registration as Chemist and Druggist under the Pharmacy Act, 1868, the *Major* examn (April and July, fee, 3 gs), for registration as Pharmaceutical Chemist (Ph C) under the Act of 1852 No person can be admitted to any portion of the *Qualifying* examn who is not a *Registered Apprentice or Student*, and this involves passing in English, Arith , Algebra, Geom , and 2 optional subjects at not more than 3 approved examns It is recommended that one of the optional subjects be Latin Among the approved examns are those numbered in the list on p 593 as 1, 2, 3, 4, 5, 6, 7 (Junior), 8, 9, 9a, 10, 10a, 11, 12, 13, 13a, 13b, 13c, 14, 16, 16a, 19, 20, 21, 23, 23a

In 1922 the *Qualifying* examn was passed by 967 persons, the *Major* examn by 59

The Dean of the Society's *School* is recognized by the Univ of London, v p 157

XV

INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of the PHYSICAL, the FARADAY, and the OPTICAL Societies, and incorporated under the Companies' Acts in 1920. Other participating Societies are The ROYAL MICROSCOPICAL Society and the RONTGEN Society. *Address*—10 Essex St., Strand, London, W C 2

Corporate members consist of two classes *Associates* (A Inst P) and *Fellows* (F Inst P). Qualifications for Associateship include the passing of an examn held by the Institute or a recognized equivalent examn, and, in addition, a year's approved research or manufacturing experience. The examn may be dispensed with in the cases of candidates with qualifications approved by the Board. A candidate for Fellowship has, in addition to his academic qualifications, to show a total record of 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g and 2 gs. Annual subsns 1 g and 2 gs. All classes of membership are open to women on the same terms as to men.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I, published by Henry Howde and Hodder & Stoughton in their "Oxford Technical Publications," price 2s 6d. The Institute has founded the monthly *Journal of Scientific Instruments*, which it produces in co-operation with the National Physical Laboratory. No 1 appeared in Oct 1923 (price 2s 6d, subscription 30s p a).

XVI

CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—55A London Wall, London, E C 2. Branches at Birmingham, Bradford, Bristol, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N E Midland-), Sheffield, Cardiff, Glasgow, and overseas at Montreal, Brisbane, Melbourne, Sydney, and Johannesburg.

Examinations are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst for a period of 4 yrs (if a graduate, 3 yrs) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary examn* (fee, 1 g, min age, 16) comprises English (Grammar, Compn, Dictn), Engl Hist, Geog, Elem Maths, one

foreign lang, and one of Maths (more Advanced), Physics, Chem, Elem Mech, Stenography Exempting examns. include matric of any recognized Univ in the Empire, and those in list on p 593 numbered 1, 2, 7, 8 (a) and (b), 9 or 10, 11, 12, 13, 13b, 14, 16, 19 (Higher Grade), 23a, and the Prelim of Inst C A or Soc of Inc Accountants and Auditors, provided, in case of 16, that the candidate has passed in the above specified subjects, also Higher School Certifs of Jt Board (6), Ox, Camb, Durh, Bris The Council may exempt any one over 21 yrs of age as to whose educational status they are satisfied

For admission to the *Intermediate* (fee, 2 gs, min age, 21) a candidate must have passed or been exempted from the Prelim Graduates in Arts, Commerce, Law, or Science of recognized Univs. in the U K, and persons who have passed the Final of the Bar Council, Law Soc, Inst C A, or Soc of Inc Accts and Audrs, are allowed a pass in the Intern on attaining the usual standard of proficiency in any 3 of the specified examn subjects they select, but must pass the Final as a whole before election to membership

For admission to the *Final* (fee, 2 gs, min age, 21) a candidate must have passed the Intern The subjects are Economics, Sec practice and duties, Law and practice in connexion with meetings, Book-keeping and Accts, Merc Law, an approved foreign language, and one special law subject (e g Insurance) or Banking and Exchange

Associate Membership (A C I S) can be obtained after 6 yrs' service with a Public Coy or Body, *Fellowship* (F C I S), after 8 yrs', of which 3 have been as Secy or Asst Secy A Fellow may describe himself as a Chartered Secretary, so likewise may an Associate if having passed the Final Examn he holds or has held office as a Secretary, Asst Sec, Chief Acct, Registrar or Chief Clerk of a Company, or other body corporate

Publications *Yearbook*, *Secretarial Practice*, *The Secretary* (monthly, 1s)

THE SECRETARIES ASSOCIATION, LTD.

Incorporated 1907 *Address*—Grosvenor Mansions, 82 Victoria Street, Westminster, S W 1 Local representatives at Birmingham, Bristol, Manchester, Nottingham, Sheffield, West Hartlepool, Bulawayo, Johannesburg

Examinations are held in London and various provincial centres in June and Dec The Preliminary (fee, $\frac{1}{2}$ g) includes Dictation, English Composition, Arith, Algebra, Euclid (4 books), Geog, History of England, and either Latin or French or German, the Intermediate (fee, 1 g)—Comm'l Arith, Secretarial work, Précis-writing, etc, Accounts, Mercantile Law, Company Law, the Final (fee, $1\frac{1}{2}$ g)—same subjects on higher standard

Membership as Associate (A I S A) or Fellow (F I S A), is open to men or women of 21 years of age who satisfy the Council as to their qualifications Subscription for Fellows, 2 gs p a, Associates, 1 g Lectures are given *Yearbook*, price 5s, includes catalogue of library, reports of lectures, etc

XVII

SURVEYORS' INSTITUTION

Founded 1868 Incorporated by Royal Charter, 1881. *Address*—
12 Great George St, Westminster, S W 1

Professional examns (fees Interm or Final, 4 gs, Direct Fellowship, 5 gs, applications receivable in Sept) are held in March in London, Glasgow, and Dublin, and a Prelim examn (fee, 1½ g) in Jan in the same places and Manchester

The *Preliminary* (min age, 16), for admission of students, comprises Elem Maths, Hist, Compn, and one of Latin, French, German, Inorg Chem, Botany, Geol. A candidate must be a pupil of a Surveyor or studying at one of the Univs of the U K or their Affiliated Colleges or one of the following the Agr Coll, Uckfield, Harper Adams Agr Coll, Newport, University Coll, Reading or Southampton, Seale-Hayne Agr Coll, Newton Abbot. He is expected to reach the standard of examn No 8 (b) of the list on p 593

Candidates for admission as *Student* (min age, 18) are exempt from undergoing the Prelim if they have passed any of the examns Nos. 7, 8 (a) or (b), 9 or 10, 9a or 10a (Hons), 11, 12, 13, 14, 16, 19 (Interm), 23 and 23 (a), or the Matricn examn of any Univ in the U K, Inst C E Studentship, Prelim of Inst C A, R I B A, Law Soc, Auctioneers' and Estate Agents' Inst or Sandhurst or Woolwich

For admission to the (i) *Intermediate* (min age, 19), a candidate must, unless at one of the institutions above mentioned, be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus I chiefly Land Agency, II chiefly Valuation, III chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may elect any one of these subdivisions. For the (ii) ordinary *Final* examination the candidate must have passed the Interm in the same subdivision which he takes for the Final. The (iii) *Direct Fellowship* examn (min age, 30) may be taken, without having passed (i) or (ii), by a candidate who has been in practice on his own account for 5 yrs.

For election as *Professional Associate* (P A S I) a candidate must have passed (i) and (ii), and be in practice as a Surveyor on his own account or employed as an Asst in a Surveyor's office. For the Fellowship (F S I) a candidate must have passed either (i) and (ii) or (iii), and had 5 yrs' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept in the office of a public body reporting direct to his Board or Council

Scholarships worth £80, £60, and £50, tenable for 3 yrs at any Univ. in Great Britain, have been established by the Council

XVIII

TEACHERS REGISTRATION COUNCIL

Constituted by Order in Council, 1912 *Address*—47 Bedford Sq., W C 1

Conditions of Registration (fee, £2) (a) a degree or other qualification approved by the Council, if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos must have been concurrent with or subsequent to the course for the degree (or other qualification), (b) successful completion of a course, extending over at least 1 academic year or its equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision, (c) experience as a teacher in educational institns accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 3 academic years

Condition (b) is waived in the case of a teacher who has had not less than 3 academic yrs' experience as Recognized Teacher in Univs and institns of Univ rank approved by the Council for this purpose Condition (b) may be modified in other cases where the Council is satisfied that facilities for the prescribed training do not exist.

EDUCATION AND TRAINING FOR TEACHING
IN ENGLAND AND WALES

The Board of Education have recently consolidated their Regulations on this subject, and introduced several changes designed to promote the unity of the teaching profession and to remove barriers which have existed between its different branches, while giving ample scope for freedom and variety, which they regard as essential in the training of teachers, and encouraging Training Colleges to plan their schemes of training on different lines so as to provide for the requirements of the various kinds of school included in the national system of education.

Courses of Training qualifying for the Board's Certificate for Teachers in *Elementary Schools* are provided in independent Training Colleges and also in the Training Departments which form part of the work of all the Univs (Wales—the Constituent Colleges, except Swansea; Durham—Armstrong College), both for men and (except Cambridge) for women, and also in the Univ Colleges, Nottingham, Reading, and Southampton

The Board recognizes for grants in respect of courses preparatory to teaching in *Secondary Schools* (i.) Departments of all the Univs except Sheffield, (ii.) Reading Univ College, (iii.) 7 other Colleges Cambridge provides for men only, Leeds and Reading for women only

Candidates for admission as *Recognized students* must, unless this condition is specially waived by the Board in any case, be British subjects ordinarily resident in the U K, they must, as a rule, be over 18, and must at least be over 17 on the first day of the academic year for which they are admitted, must give satisfactory evidence of health, character, and suitability for the profession, and must have passed the Preliminary examination for the Elementary School Teachers' certificate or one of the exams in the list on p 593, numbered 7, 8 (b), 9, 10, 11, 12, 13, 14, or some other exam as to which the Board are, in particular cases, satisfied that it is equivalent to these in range and standard, they must sign a declaration of intention to follow the profession of teacher in an Approved School. A married woman is not admissible without the special sanction of the Board

Candidates who satisfy the above requirements as to age, attainments, and character may be admitted as *Private students* without giving the prescribed Undertaking but no grants will be payable on their account except in certain special cases, and the fees chargeable to them will be correspondingly higher

The principal *types of courses* approved are (i) 4-year, including 3 yrs of study for a Univ degree followed by a year of professional training, (ii) 2-year, including a period of prof training taken concurrently with a period of academic study, (iii) 3-year, providing a year of further training for selected students who have completed (ii), (iv) 1-year—(a) prof training for graduates or other advanced students, or (b) a year of partly prof and partly academic study for Certificated Teachers. The foregoing give a suitable training for teaching in Public *Elementary Schools*. Other types are (v) in preparation, extending over not less than a full academic year, for teaching in *Secondary Schools*, (vi) professional instruction, extending, as a rule, over not less than a full academic year, for teaching in *Continuation Schools*, (vii) in preparation for teaching *Domestic Subjects*

As regards (i), a student may be admitted to the 2nd, 3rd, or 4th yr. if he has completed 1 yr, 2 yrs, or the whole of the course for a Degree before entering the Training Dept and is over 18, 19, or 20 as the case may be. A student who has pursued a course of type (i) will not as a rule be certificated as a Teacher unless he has passed a Final examn for a Degree, but the Board may regard as qualified one who has failed to pass if he is specially recommended by the Univ Authorities, or he may be recognized as a temporarily Certificated Teacher and subsequently qualify for permanent recognition

(ii) Suitable Univ. examns forming recognized stages in courses for degrees may, subject to certain conditions, be approved for individual students in lieu of the Board's Final examn. Concessions similar to those above mentioned may be made to students who fail in a Final examn for a degree

(iii) may include preparation for a Final examn for a Univ. degree,

provided an advanced course in the Principles of Teaching is included in it or taken separately, and certain other conditions are fulfilled

For (iv) any candidate who has not already served as a Certificated Teacher for 4 yrs must be over 19 and have passed the Final examn for a Univ degree, or the examn for the Diploma of Assoc in Letters or Science of Univ College, Reading, or an approved School Leaving Certif examn conducted by a Univ, including special advanced papers in English, a foreign language, and one other subject, or the Oxford or Cambridge Higher Local, including Arith and English, Maths or Science, Languages or Hist or Geog, or the Nat Froebel Union Higher certif, or some corresponding or higher examn approved for the purpose. No 1-year student may be allowed to enter for an examn which forms a recognized stage in the course for a Univ degree

(v) Persons who have obtained a Univ degree in Honours or its equivalent may be admitted as Recognized students, and will be eligible for maintenance as well as tuition grants if they sign the prescribed Undertaking. Others who have obtained a Univ degree or a Special Honours Higher Local certif (Ox and Camb) fulfilling the special requirements of the Board may earn tuition grants for the Dept even though not giving the prescribed Undertaking. Students who have been admitted for a 4-year course and obtained a Univ degree in Honours or the equivalent may, on the recommendation of the Univ authorities, take a type (v) course instead of the fourth year of the type (i) course

A person, not under 21, who has obtained an approved degree in a Univ of recognized standing or a Special Honours Higher Local certif (Ox or Camb) fulfilling the special requirements of the Board may on certain conditions be recognized as a teacher in training in an approved Secondary School, the course extending over at least a full school year. If such a teacher has obtained an approved degree in Honours or its equivalent the School will be entitled to a tuition grant

Teachers of any ordinary subject of instruction in recognized schools, etc, are eligible for *Studentships* (a) "Special," not exceeding £100, for full-time courses of advanced study or research either at Univs or institts of Univ rank in the British Empire, or at approved places in foreign countries, these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, not for the whole or part of an ordinary degree course; (b) "Assisted," not exceeding $\frac{1}{4}$ of the fees of the proposed course, for approved part-time courses in Univs or institts of Univ rank, teachers so assisted would continue their ordinary teaching work at the School

The *Interchange of teachers between different parts of the Empire* and mutual recognition of certificates and service were among the subjects considered at the Imperial Education Conference held at London under the Chairmanship of the Permanent Secretary to the Board of Education in July 1923, and a report was prepared by a committee of the Conference on I Interchange, II Recognition of (a) service given

elsewhere than in the country of origin—for the purposes of superannuation, (b) previous service—for calculation of salary in case of teachers who migrate, III Recognition of teachers' certificates throughout the Empire

The League of the Empire (124 Belgrave Rd, London, S W 1) promotes schemes for the interchange of teachers between the Mother Country and the Dominions. In 1920 the London County Council ruled that service in any State School of the Dominions should count as London service for the purposes of such interchange. Canadian, Australian, and New Zealand Education Departments have reciprocated. A triennial Imperial Education Conference is held by the League, next meeting, July 14 to 19, 1924.

An Overseas Education League, under the auspices of the Govts of the Dominion of Canada, Newfoundland, New Zealand, and the Depts of Education of Alberta, B C, Manlt, N S, N B, Ont, P E I, Que, Sask, New S Wales, Vict, W Aust, Natal, and Sierra Leone, undertakes the organization of official visits of Teachers to Great Britain and other parts of the Empire, interchange of Teachers and School Inspectors within the Empire, etc. Office of the Hon Organizer in Canada (the Gen Secy, National Council of Education)—Parliament Buildings, Winnipeg.

The Fellowship of the Maple Leaf for the supply of British teachers for Western Canada is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities Office—13 Victoria St, Westminster, S W 1.

XIX

PROFESSIONAL OPENINGS IN THE KING'S DOMINIONS OVERSEAS

Information on this subject is available in the *Professional Handbook* issued in 1920 by the Oversea Settlement Office, 3-4 Clement's Inn, London, W C 2, in 4 Parts. I Barristers and Solicitors, Notaries Public, II Physicians and Surgeons, Dentists, Vet Surgeons, Nurses, Chemists and Druggists, III Civil Service; Clerks, Stenographers, Typists, and Accountants, Governesses, Teachers, IV Architects and Engineers, Auctioneers, Commercial Travellers, Police, Surveyors. Price of each Part, 6d.

XX

LIST OF EXAMINATIONS REFERRED TO IN THE
PRECEDING APPENDICES

- 1 Oxford Responsions ,
- 1a Oxford, First Public Examn before Moderators ,
- 1b Oxford, Prehm Examn in Jurisprudence ,
- 2 Cambridge Previous ,
- 3 London Matriculation ,
- 4 Durham Matriculation ,
- 4a Durham, Examn in Arts for the 2nd year ;
- 5 Wales Matriculation ,
- 6 Joint Board of Northern English Univs (Manc., Liv., Leeds, Sheff, Birm) Matricn ,
- 7 The same Board's School (7a—Higher School) Certificate ,
- 8 Oxford and Cambridge Schools Examn Board's (a) Higher, (b) School, (c) Lower Certificate ,
- 9 Oxford School Certificate (Senior Local) ,
- 9a Oxford Junior Local ,
- 9b Oxford Higher School Certif ,
- 10 Cambridge School Certificate (Senior Local) ,
- 10a Cambridge Junior Local ,
- 10b Cambridge Higher School Certif ,
- 11 Bristol School (11a—Higher School) Certificate ,
- 12 Durham School (12a—Higher) Certificate ,
- 13 London General School ;
- 13a London General (School) Matricn ;
- 13b London Higher School ,
- 13c London Junior School
- 14 Central Welsh Board's School or Higher Certificate ,
- 15a University College, London, Matricn ,
- 15b King's College, London, Matricn ,
- 15c City and Guilds (Enginnering) College, London, Matricn ;
- 16 College of Preceptors, Senior ,
- 16a College of Preceptors, Junior ,
- 17 University College, Southampton, Special Entrance (Engineering) ;
- 18 Scottish Univs Preliminary in Science ,
- 19 Scottish Educn Dept Leaving Certif ,
- 20 Belfast Matricn ,
- 21 N U I Matricn ,
- 22 Dublin General at end of Senior Freshman year ,
- 23 Irish Intermediate (Middle Grade) ,
- 23a Irish Intermediate (Senior Grade) ;
- 24 Responsions at St David's College, Lampeter.

XXI

MATRICULATION EXAMINATIONS BY JOINT BOARDS

UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD, AND BIRMINGHAM (sometimes referred to as the "Northern Universities") *Address of the Secy (J M Crofts), 315 Oxford Rd, Manchester* The examn (fee, £2) is held at each of the Univs in July and Sept. Candidates are required to satisfy the examiners at one and the same examn in 5 subjects as follows —I English Composition combined with either English Literature or History, II either Maths or Latin, III three other subjects not already taken under I and II chosen from 1 Engl Lit, 2 Hist, 3 Geog, 4 Greek, 5 Latin, 6 French, 7 German, 8 some other Approved Language, 9 Maths, 10 Mechanics, 11 Physics, 12 Chem, 13 General Expl Sc, 14 Natural Hist, 15 Botany, provided that candidates who take Maths under II must include one of 4-8, and those who take Latin under II must include one of 9-15. The several Univs impose special conditions for entrance to certain Faculties.

Holders of the Matricn Certif or a certif entitling to exemption from the examn who require a certif of having satisfied examrs. in subjects not appearing on their certifs or in Addl. Maths may be admitted to a Supplementary examn (fee 10s, or, for single-paper subjects, 5s.)

Exempting Examns Those in the list on p 593 numbered 1 and 2, London Interm examn, Interm examn in Arts, Sc, or Med of an approved Indian Univ, Secondary Ed Certif of Egyptian Ministry of Ed, Final examn of Law Soc (in case of Barrister or Solicitor entering Faculty of Law), Special Army Ed Certif at Advanced Standard, also, subject to provisos, Nos 3, 8 (b), 9, 10, 11, 12, 13, 14, 19, also at the Board's discretion other examns of equal or higher standard.

A special Matricn examn for *candidates of mature years* (not under 23 on May 1 of year of application) has been instituted. Applications (with fee, £2, and birth certif) will be received up to May 1.

SCOTTISH UNIVS, v p 239

CANADA, v pp 304, 327, 386.

AUSTRALIA, v p 399

S AFRICA, v. p. 444.

XXII

STUDENTS FROM OVERSEAS IN THE UNIVERSITIES
AND UNIVERSITY COLLEGES OF THE UNITED
KINGDOM *

From AFRICA 1135, AMERICA 778, ASIA 1441, EUROPE 536, THE PACIFIC 281 Total, 4171 The number of students from each of the countries which contributed largely to these totals is given below —

From EGYPT 321, including 71 at Birmingham, 11 at Bristol, 30 at Cambridge, 11 at Leeds, 22 at Liverpool, 80 at London, 32 at Manchester, 12 at Sheffield, 19 at Edinburgh, 11 at Glasgow

From SOUTH AFRICA and RHODESIA 744, including 72 at Oxford, 48 at Cambridge, 43 at Liverpool, 343 at London, 109 at Edinburgh, 16 at Aberdeen, 31 at Glasgow, 47 at Dublin

From CANADA and NEWFOUNDLAND 165, including 16 at Cambridge, 61 at London, 62 at Oxford and 14 at Edinburgh

From SOUTH AMERICA 71, including 18 at London

From U S A 402, including 70 at Cambridge, 88 at London, 213 at Oxford and 26 at Edinburgh

From the WEST INDIES and BERMUDA, 127, including 47 at London, 14 at Oxford, 26 at Edinburgh

From CHINA 126, including 12 at Cambridge, 57 at London, 20 at Edinburgh

From INDIA, BURMA and CEYLON 1090, including 26 at Bristol, 165 at Cambridge, 424 at London, 38 at Manchester, 127 at Oxford, 127 at Edinburgh, 69 at Glasgow

From JAPAN 82, including 10 at Cambridge and 54 at London

From BELGIUM 18, DENMARK 27, FRANCE 63, GREECE 25, HOLLAND 40, ITALY 16, NORWAY 27, POLAND 26, ROUMANIA 26, RUSSIA 91, KINGDOM OF SERBS, CROATS and SLOVENES 22, SPAIN 24, SWEDEN 18, SWITZERLAND 44

From AUSTRALIA 176, including 29 at Cambridge, 53 at London, 51 at Oxford and 25 at Edinburgh

From NEW ZEALAND 103, including 31 at Cambridge, 35 at London, 20 at Oxford and 14 at Edinburgh

* Compiled from lists received from all Universities and University Colleges except the Medical Schools of St. Bartholomew's Hospital and Charing Cross Hospital A consolidated list of names of the students has been printed, and can be obtained from the Universities Bureau

XXIII

ADMISSION AS UNDERGRADUATES OF THE UNIVERSITIES OF THE UNITED KINGDOM OF PERSONS EDUCATED ABROAD

The following notes relate to the admission of students from other countries proposing to take full courses for a First degree, excluding from consideration those who seek admission with advanced standing on the ground of having already pursued courses in other Univs * and those who seek only to study without aiming at a degree.

A comparison of the regulations of the several Univs of the U K governing admission of such students discloses a general agreement in principle, with divergencies in application

The regulations are drafted on the understanding that the application to a student educated in another country of the ordinary entrance tests might be inappropriate owing to the fact that the tests exacted in the U K have been framed with reference to secondary education curricula, which may be somewhat different from those which obtain in the country from which the student comes, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications ordinarily certifs which would entitle to admission to a Univ in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation, in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English

The lines along which this policy has been applied in the several Univs may be briefly indicated as follows

Oxford and Cambridge particularize the examns conducted abroad, which they recognize to the extent of accepting pass certifs as exempting from Responsions or the Previous Examn respectively. These are not, strictly speaking, Entrance Examns, because in Oxford and Cambridge matriculation follows without further examination upon admission to one of the Colleges, Halls, or Societies, which fix their own entrance conditions, in effect, however, they take the place of the Matriculation Examn of other Univs

Oxford includes in its list (see Appendix A) examns held in France, Germany, Austria, Hungary, Switzerland, Russia, Serbia, Italy, Holland, and, subject to the condition that the student has passed in Latin or

* A résumé of Regulations regarding such concessions is given on pp. 12, 13.

Greek and in one other approved foreign language, in Canada, Australasia, S Africa and Hong-Kong. An *Adviser to Colonial and Foreign Students* is attached to the Univ Registry.

Cambridge exempts from the several Parts of the Previous Examn candidates who have passed, in the subjects prescribed for those Parts, certain examns (see Appendix B) held in Australasia, S Africa, and the continent of Europe.

Exemption may also be obtained, not only from Responsions (and the Examn in Holy Scripture) or the Previous Examn, but also from the Entrance Examns of the other Home Univs, by passing the Oxford or Cambridge Senior Local Examns, which are held in various parts of the British Empire overseas as well as in the U K.

London accepts certifs of matricn of Colonial Univs, and (provided they indicate a standard *prima facie* involving an education equivalent in the student's own country to that required in England for matriculation in London) Indian or Foreign certifs, as grounds for exemption from the ordinary Matriculation Examn of students of not less than 19 years of age, but requires all candidates so exempted, except those who have passed under prescribed conditions the Matricn Examn of Adelaide, Melbourne, or West Australia, to undergo in London a shortened form of this examn under Statute 116 (see Appendix C). London also arranges for the holding of its own ordinary Matriculation Examn in the Colonies and self-governing Dominions upon the application of the local Governments. As regards graduates, see p 95.

Scottish Universities Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn if they have passed examns which would admit them to a course qualifying for graduation in Arts or Science in Univs or Technical Colleges affiliated to a Univ in the Dominion or Colony from which they come, provided (1) their knowledge of English is sufficient to enable them to follow the courses of instruction with profit, and (2) if candidates for degrees in Engineering, they have a knowledge of Mathematics of a certain specified standard. Those whose native language is other than English are required to pass an examn, oral and written, in this language, including set books. Students from India are subject to the further condition that they have passed the Intermediate Examn in Arts or Science, as the case may be, in a recognized Indian Univ.

As regards students from foreign European countries, the B ès L and B ès Sc and similar "certifs of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs of his own country" are accepted subject to the above-mentioned conditions as to knowledge of the English language. Certain Egyptian, Argentine and Chinese certifs are also recognized. Provision is not made specifically for the acceptance of other foreign certifs, but the Board has a general dispensatory power in regard to applicants of not less than 21 years of age who satisfy it as to their fitness.

N B—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify

for graduation, determine the conditions of admission to such qualifying attendance

The Northern (English) Universities Joint Board Subject to Special Regulations for Entrance to particular Faculties, exemption from the Matriculation Examn is granted to a student who holds the Secondary Education Certif of the Egyptian Ministry of Education, or has passed the Intern Examn in Arts, Sc, or Med of an approved Indian Univ, and may, at the discretion of the Board, be granted to "applicants holding certifs of having passed examns of a standard at least equal to" Oxford Responsions, Cambridge Previous, etc The procedure at Liverpool is as follows Applications, with references, from Foreign and Indian undergraduate students are receivable up to June 1, from Egyptian up to July 31 In respect of Indian and Egyptian undergraduate students the Students' Dept of the High Commr for India and the Egyptian Educational Mission are asked to certify as to the character, qualifications and suitability of applicants

Durham Foreign students may matriculate provided they satisfy a special Committee that they have passed in their own country an examn of a standard deemed sufficient for matriculation, and that they have sufficient knowledge of English to profit by the proposed course of study The Matriculation Examn of the Univ of Sydney is recognized as exempting from that of Durham

Durham Colleges Graduates of Univs in the U K or of other approved Univs are admitted without further examn A candidate educated elsewhere than in Great Britain may matriculate if he has passed examns deemed by the Matricn Board to be sufficient Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

College of Medicine Examns qualifying for a degree in Arts of any Univ of the British Empire are accepted, subject for subject, for exemption from the ordinary matricn examn Candidates from a British Colony who have passed an examn which would admit them to a medical degree course in such Colony are accepted for matricn if the examn satisfies the requirements of the G M C Candidates from India must have passed the Intern Examn of one of the recognized Indian Univs, and be registered on the books of the G M C

Armstrong College Foreign or Colonial students must have passed in their own country an examn of English matriculation standard in the required subjects, and must have a sufficient knowledge of English to profit by the proposed course of study In the case of Indian students no examn lower than the Intern of an Indian Univ will be considered for this purpose

Bristol A candidate educated elsewhere than in the U K may submit to the Senate evidence of having passed examns elsewhere equal to the Matriculation Examn of any Univ of the U K, or to any of the other examns which qualify for matriculation at Bristol, if from an oriental country, he may submit evidence of previous education in his own country and of ability to follow instruction given in English The

Senate may thereupon, if satisfied with the evidence, declare him eligible for matriculation

Wales Candidates who have qualified by examn for a degree of an approved Univ or College, or passed the Matriculation Examn of the Swiss Univs, or the secondary school certif examn of the Transvaal Education Department in the subjects required by the Univ matricn regulations, or, if certified by a Constituent College as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn in Arts or Science of an approved Indian Univ, may matriculate without further examn

Belfast Matriculated students of Univs outside the British Isles may send written statements and certifs which should, as a rule, cover all subjects required for matricn in the Faculty concerned. When a certif in any subject is not available, other evidence of proficiency may be furnished. The Matriculation Examn of the Joint Matricn Board of the Univs of S Africa is accepted as equivalent, subject for subject, to the Belfast Matricn Examn. Entrants who are graduates of a British Univ are not required to pass the Matricn Examn.

Dublin admits students who have passed the Matricn Examn of any Univ in S Africa including English, Mathematics, Latin, and one other approved language. The Senior Lecturer is empowered to exempt from the Matriculation Examn any student who has passed in the subjects required at matriculation at a public examn which is, in his opinion, of equivalent standard. See, however, p 287 regarding compulsory subjects in Arts course.

National University of Ireland The Senior Public Examns of Sydney, Melbourne, and Adelaide, the Jaffa Gymnasium Maturité, and the Matricn Examns of Sydney, Melbourne, and New Zealand, and of the Matricn Boaid of S Africa, are recognized as qualifying for exemption from the Matricn Examn. The Matricn Examns of other Univs in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn in Arts or Science.

APPENDIX A

Oxford Responsions Exemption may be granted to persons who have passed the Baccalauréat in France, the Maturitäts-Prufung in Switzerland (Latin being one of the subjects in which they have passed), or at a Gymnasium in the German Empire, the Austro-Hungarian Empire, Russia, or Serbia, the Examn for the Licenza Liceale in Italy, or the Eindexamen at a Gymnasium in Holland, also, provided they have satisfied the examiners in either Latin or Greek and in one other approved language (Greek, Latin, French, German, Italian, Spanish), to persons who have passed any of the following examns. .

S African Univs Joint Matricn Board or the Transvaal Secondary School Certif Examn (Distinction in 2 languages or in 1 language and Maths or Physics or Chem or Botany or Physics-and-Chem),

Univ. of Adelaide Senior Public ;
 Univ of Melbourne School-leaving (Class B) ,
 Univ of Tasmania Public Leaving ,
 Univ of W Australia School-leaving ,
 New South Wales Educn Department's Leaving Certif ,
 New Zealand Matricn. or Entrance Scholarship ,
 Univ of McGill Matricn , or First Year in B A course ,
 Ontario Educn Department's Junior Matricn ,
 Univ of Toronto Senior Matricn , or First Year ,
 Univ of Hong-Kong Senior Local ,
 Part I of the Baccalauréat de l'Enseignement Secondaire in France

APPENDIX B

Cambridge Previous Examn Exemption may be granted from the several Parts of the Examn to a person who (1) has passed the Matricn Examn of Adelaide, Melbourne, Sydney, Tasmania, New Zealand, or the Univ of S Africa, or (ii) holds a certificate qualifying for admission without further examn into the Univ of any European state, or (iii) holds the Egyptian Govt secondary education certif and is not of European parentage, as follows,

(1) From Part I if he has passed in 2 languages other than English, one being Latin or Greek, provided that both have been taken on one and the same occasion ,

From Part II if in either Mathematics or Physics or Chemistry ,

From Part III if in English

(ii.) From Part I if he has passed (either in the Examn. in question or in another Univ. Examn in the same country, certified by the authorities of the Univ as ranking higher) in 2 languages other than his mother-tongue, of which one is Latin or Greek

From Part II if in either Mathematics or Science ,

From Part III if in a Modern Language other than that used for exemption from Part I

(iii) From Parts II and III and also, provided that in one at least of the 2 examns for the certif he has passed in French, from Part I

The following is a summary of the existing affiliation regulations (referred to on p 49) which will be superseded as from Jan 1, 1925

The privileges of affiliation are granted, under certain conditions, (a) to members of Affiliated Institns , (b) to graduates of other Univs approved for the purpose. A student fulfilling the required conditions is entitled to either or both of the following privileges, namely (1) to be exempted from all Parts of the Previous examn , (2) to reckon the 1st term kept by residence as the 2nd, 3rd, or 4th term of his residence, for the purposes of all provisions respecting the standing of candidates for Tripos examns or for Degree examns in Med , Surg , or Music, and respecting the standing of candidates for Honours degrees

Universities Affiliated or Approved All in the United Kingdom and—Adel., All , Basle, Bish., Bom , Calc , Chicago, Columbia, Cornell,

Dartmouth, Harv , Hong-Kong, Illinois, Johns Hopkins, King's (N S), McG , McM , Madras, Melb , Mich., Minn , Mt All , New Bruns , New Z , Panjab, Patna, Penn , Prin , Queen's (Ont), Queensland, St Fr X (N S), S Africa, Syd , Tasm , Tor , Virg , W Aust , Western (London, Ont), Wisc , Yale

Other Affiliated Institutions St David's Coll , Lampeter , St Edmund's Coll., Old Hall, Ware. *Univ Colls* —Wales (Aberystwyth), S Wales (Cardiff), Nottingham, Southampton, Exeter *Local Lectures Centres*—Exeter, Leicester, Southport.

APPENDIX C

London The Examn under Statute 116 held in London, usually about four times a year, comprises four subjects, of which English and either Mathematics or Logic are compulsory. Subjects outside the more usual field of elementary academic study may not be taken. Any certifs that the candidate may present, or any examn. he may have passed, may be taken into account, but in every case he is required to undergo a *viva-voce* examn., and a sound elementary knowledge of English is necessary. Work for the Intermediate Examn may be begun (*e g.* in October) before passing the Matricn test, this being deferred (*e g.* until the following May just before the Intermediate)

XXIV

INTER-UNIVERSITY SCHOLARSHIPS AND GRANTS
FOR ADVANCED STUDY AND RESEARCH

Under the heading "SCHOLARSHIPS, ETC," will be found in the sections of the Yearbook relating to the several Universities information regarding the extent to which they provide for the promotion of advanced Study and Research by the offer of Scholarships, Fellowships, etc., to their own graduate members. In this Appendix are given particulars of some other aids

- (i) Funds administered by Universities and Colleges
- (ii) Royal Commission for the Exhibition of 1851
- (iii) Beit Memorial Fellowships for Medical Research
- (iv) Beit Fellowships for Scientific Research
- (v) Gilchrist and Sir Richard Stapley Educational Trusts
- (vi) Funds administered by the Royal Society
- (vii) British Academy, British Association, and Royal Institution
- (viii) British School at Rome
- (ix) British School at Athens
- (x) Maine Biological Association
- (xi) Ramsay Memorial Fellowships
- (xii) Albert Kahn Travelling Fellowships
- (xiii) Cancer Research Funds
- (xiv) Engineering and Naval Architecture Scholarships
- (xv) Johnston Chemical Scholarship and Salters' Institute Fellowships
- (xvi) Grocers' Company Sanitary Science Scholarship
- (xvii) Kitcheners Scholarships, Scholarship for Adults
- (xviii) Imperial Order Daughters of the Empire Scholarships
- (xix) Central Bureau Loan Fund
- (xx) British Empire Exhibition (1924) Fellowships
- (xxi) Sir George Watson Chair of American History, etc
- (xxii) American University and College Scholarships
- (xxiii) French University Scholarships
- (xxiv) Federations of University Women
- (xxv) Government Grants and Co-ordinating Agencies.
- (xxvi) Ministry of Agriculture and Fisheries
- (xxvii) Ministry of Health and Medical Research Council
- (xxviii) Research in the Colonies
- (xxix) Research in Canada, Australia, and Africa
- (xxx) Research in India
- (xxxi) Research in the U S A
- (xxxii) Research in France.
- (xxxiii) International Foundations and Organizations for Research

For *Rhodes Scholarships*, v p 192, for *Carnegie Trust* for the Univs of Scotland, p. 242

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(1) FUNDS ADMINISTERED BY UNIVERSITIES AND COLLEGES

CAMBRIDGE *Almeric Paget Studentship*, £150, for Polit Sc, Economics, etc, open to graduates of any Univ, or those about to graduate Election after examn (English Essay and questions on Polit. Hist and Econ) Applications, with 3 testimonials, evidence as to graduation and signed statement of age and proposed course of study, receivable up to July Student to come into residence at Corpus Christi Coll for the academic year succeeding election

F W Mailland Memorial Fund Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc, connected with these subjects

Whewell Scholarships in International Law, one of £100 and one of £50, open to all persons whether already members of the Univ or not who are under 25, tenable for 2 yrs in the Univ

J L Walker Studentship in Pathological research, £300 p a for 3 yrs Candidate need not necessarily be a member of the Univ

Balfour Studentship in Biological research, especially in Animal Morphology, £300 p a for 3 yrs, student need not be a member of the Univ, but must study in it for at least 3 terms

Hort Memorial Fund, £65 p a, for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith

Gordon Wigan Fund, £300 p a, for scientific educn or research

Worts Fund for investigations in foreign countries respecting religion, laws, etc, or geographical discovery or antiquarian research therein

Clare College Research Studentships, £125 p a, not more than two at a time, graduate members of any Univ may be elected, but preference to members of the College

Emmanuel College Research Studentship Value £150 p a, tenable for 2 yrs Open to a graduate or other qualified student, not less than 21 yrs. of age, from another Univ beginning Research at Cambridge (v p 52) Applications should reach the Master not later than Sept 18, and should be supported by two certificates of character, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research

Peterhouse Research Studentship (Abercrombie Smith), £150 Open to graduates of any British or Foreign Univ Applications receivable by Tutor up to Jan 10 Awarded in 1924 to R A Webb, M D

Trinity College Research Studentship and Dominion and Colonial Exhibitions A Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £200 p a, tenable during preparation for the Ph D degree in the Univ of Cambridge Open to men who have graduated or are otherwise qualified, provided that they have not commenced residence in the Univ of Cambridge Tenure is

conditional on entry as Research student (minimum age, 21; v p 52) and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr Tutor not later than July 25

The *Exhibitions* for students residing in the Dominions and Colonies, annual value of £40, which may be increased by remission of College fees to £72 in cases of special need, are tenable for 2 yrs and possibly for 3. Candidates must apply through the principal authority of the Univ to which they belong. The Univ authorities, if they think fit to forward an application, the candidate being in their opinion of marked ability and one of whom it may be confidently expected that he will profit by a further period of Univ study, will send with it certificates of birth and character, record of scholastic career, etc

Girton College Research Fellowships—1 *Science* £300 p a for 3 yrs (renewable up to 6 yrs) for research in Math, Physical and Nat Sciences 2 *Arts* (Pfeiffer Fellowship) £250 for 3 yrs (renewable up to 6 yrs) for research in Language and Lit, Moral and Polit Sc, or History. Open to women who are graduates or have taken Honours in a final degree examn of any Univ, and members of the Girton College Roll. The Fellow will reside at the College (charge for rooms and commons, £60 p a) or, with the special permission of the Council, elsewhere. Next award, 1924

LEEDS *Textile Research*—v p 77 LIVERPOOL *Garrett International, Johnston Colonial, Lloyd's Register*—v p 88

LONDON *Dixon Fund for assisting Scientific Investigations*. Income available for grants—about £275. Applications receivable by the Principal between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required for it (detailed estimate to be given), any previous grant received for same object, what apparatus of permanent value will be needed. Names of two referees to be given. Instruments, specimens, etc, purchased out of grants to be returned to the Univ. Published results of researches to refer to the Fund, and 25 copies to be supplied to the Univ. Preference given to applicants who are graduates of the Univ or who undertake to work in a Dept or School of the Univ or other Instn connected therewith.

Charles Graham Medical Research Fund. A Scholarship in Pathology, value not exceeding £300 p a for 2 yrs, is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ College Hospl as a Teacher under the direction of the Prof of Pathology". Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Scholar for 1922-25—V R Khanolkar, M D

Keddey Fletcher-Warr Studentships for Post-Graduate Research in Science. Value £200 for 3 yrs, renewable. Open to men and women

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of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the Public Press.

Rogers Prize, £100, offered from time to time, for an Essay on a *Medical* or *Surgical* subject, named and appointed by the Univ. Open to all whose names appear on the Medical Register of the U K

Meyer Studentships in History and Geography of India. Endowment, £3000, tenable at Univ. College by graduates of Univs. of the British Empire studying for approved higher degrees in the Univ. of London

Imperial College Dominion Science Scholarships, 1924-25, £300 each, for graduate students (2) from the Univs. of each of the Dominions, Canada, Australia, New Zealand, S. Africa, and India. Method of selection to be determined by the Heads of the Govts. concerned

London School of Economics Research Studentship, open to graduates, £175

Bedford College for Women £150 for women graduate students of Sociology

MANCHESTER *Chemistry, Economics, Engineering, etc.*, v p 170

OXFORD *Philip Walker Studentship for Research in Pathology*. £200 p a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men

Weldon Memorial Prize (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to *Biometric Science*

Lady Margaret Hall *Susette Taylor Fellowship* for independent study abroad

WALES *Aberystwyth University College* Scholarship open to students of the Univ. of Paris

ROYAL COLLEGE OF PHYSICIANS, London. *Streatfeild Scholarship*, £250 for 3 yrs. for research in Medicine or Surgery

SCOTTISH UNIVS., *Ferguson, M'Cunn, Shaw*, v p 242

GLASGOW *Stevenson Citizenship Fund*, £20,000, established 1921 to provide for instruction, study, inquiry, and research, and thereby to emphasize the compatibility of civic or local with national patriotism and of both with full and free international co-operation. V p 261, *Civics*

BELFAST *Musgrave Research Studentships*, £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology*. Latest date for applications—July 1

MCGILL v p 343. TORONTO *Mickle Fellowship* (endowment \$25,000) awarded to a member of medical profession as reward for advancement of practical knowledge in med. art or science. Four of \$500 with free tuition for M A or Ph D, preference to graduates of Canadian Univs. outside Ontario. Eight of \$500 (tutorial fellowships) open to graduates of any Univ. V also p 387

(11) SCHOLARSHIPS AWARDED BY THE ROYAL COMMISSION
FOR THE EXHIBITION OF 1851

I *Science Research Scholarships offered to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire Value, £250 p a, with supplements in certain cases, tenable ordinarily for 2 yrs, renewable in exceptional cases for a third year, at any institution approved by the Commrs, but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education, open to British subjects of age (except in very special circumstances) over 26 yrs At present not less than 8 (Canada 3, Australia 2, S Africa, N Z, and Irish Free State, 1 each) are offered annually, recommendations receivable up to May 1 (Australia and N Z June 1) from the following Univs Alb, B C, Dal, McG, Manit, Queen's (Ont), Sask, Tor, and any of the Univs of Australia, N Z, S Africa, and the Irish Free State A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs Recipients in 1923 J F Lehmann (Alberta), J R McHaffie (Manitoba), W L Webster (Toronto), L H Martin (Melbourne), F Lions (Sydney), R W E B Harman (N Z)

II *Senior Studentships*, at present 5 in number, each of £400 p a with supplements in certain cases, for 2 yrs or, in special cases, for longer, open to British subjects of age not (except in very special circumstances) more than 30 yrs, on recommendation, receivable up to May 1, by Profs and Heads of Depts through the executive authorities of such Institutions as may be invited by the Commrs to nominate, tenable at any Institn at home or abroad approved by the Commrs The Student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs, be spent in delivering an advanced course of lectures He is not debarred from holding another position of emolument, but in such cases the Commrs may modify the value of the studentship Recipients in 1923 D Stockdale (Metallurgy), Cambridge, J H Quastel (Bio-Chem), Cambridge, H Williams (Geology), Liverpool, L C Jackson (Physics), Nottingham, W Davies (Chemistry), Oxford

III *Post-graduate Scholarship in Naval Architecture* £250 p a for 2 yrs for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in N A at, and been nominated by, the R N College, Greenwich, Univ of Glas or Liv, or Armstrong College The nominations are reported

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on by the Council of the Inst N A Recipient in 1923 E Smith (University of Glasgow)

IV *Industrial Bursaries* of not more than £150 p a for 1, 2, or, exceptionally, 3 yrs to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry Open to British subjects under 25 recommended from one of the Univs of Gt. Britain, including the Imperial Coll of Sc and Tech, Heriot-Watt Coll, or Univ Coll, Nottingham A candidate must have been a *bona fide* student of Science for a term of 3 yrs, should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within 1 month of election obtain, an industrial post to be approved by the Commrs, and is in need of pecuniary assistance to enable him to hold such a post Twenty-six bursaries awarded in 1923

V *Rome Scholarship in Architecture*, £250 p a for 3 yrs Open to British subjects under 27 by competition conducted by the Faculty of Arch of the School at Rome A Student or Associate of the R I B A who is placed next in order of merit to the winner will be recommended for the Jarvis Studentship of £250 p a

Rome Scholarships in Sculpture and in Decorative Painting, £250 p a, tenable for 3 yrs at the British School at Rome Open to British subjects under 30 and 27 respectively by competition conducted by the Faculties concerned The Faculty of *Engraving* administers a Scholp of the same value Recipients in 1923 Archit, R A Cordingley (Manchester), Sculpture, David Evans (R A School's), Painting, A K Laurence (R C A), Engraving, Charles Murray (Glasgow S of A)

General. Women are eligible for all the Scholps except III and IV Address of the Secy to the Commrs, 1 Lowther Gardens, Exhibition Rd, London, S W 7 Entries for the Rome Scholps are receivable up to October 15 (Architecture), December 31 (Plg, Sculp, and Engraving) by the Hon General Secy, British School at Rome (same address)

(iii) BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH

Founded in 1909 by Sir Otto Beit, K C M G, in memory of his brother Alfred, "to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine" Six, each of £350 p a and usually tenable for 3 yrs, with a possible extension of 1 yr at £400, are awarded in July Open to graduates, men or women, in any Faculty of a British Univ Notice of each election is published 3 mos in advance Applications are considered by an Advisory Board Senior Fellowships of £600 p a tenable for 3 yrs may also be awarded to persons who have already held Junior Fellowships Fellows appointed in 1923 Senior—Dr David Keilin (Cambridge), Junior—J M H Campbell (Guy's Hospl), C G Lambie (Edinburgh), W K Slater, Dorothy S Russell (London Hospl), C P Stewart (Edinburgh), H J Channon, Wm Smith, L B Winter, Dorothy B Steabben (King's College), C S Hicks (Otago) Special grants have been made from

time to time for, or in aid of, particular objects of research *Address of Hon Sec to the Trust—Sir James K Fowler, K C V O , C M G , 35 Clarges St , Piccadilly, London, W 1*

(iv.) BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH

Founded by Sir Otto Beit, K C M G , in 1913 to promote the advancement of Science by means of research. At present £250 p a for 1 yr. with possible maximum extension of 1 yr Tenable at Imperial College of Sc and Tech , London, under supervision of a Prof Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25, of European descent by both parents, who have taken a degree in any Univ in the British Empire, or Diploma or Associateship of any College approved by the Trustees Not open to holders of any other Scholarship or Fellowship Elections, advertised 3 mos in advance, are made annually in July Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs without aid of Fellowship, names of not more than 3 referees including one on the staff of the Univ or College or a College of the Univ at which the degree, etc , was obtained Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration Inquiries may be addressed to the Rector of the Imperial College Fellows for 1923-24 H W Buston and O M B Bulman of R C Sc

(v) GILCHRIST EDUCATIONAL TRUST

Most of the Scholarships, etc , awarded by the Trust are for students of particular institutions The following are not so restricted :

Scholarships in *Turkish* (1) and *Chinese* (1) £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr 's standing, in an Oriental country Open to candidates of European origin Awarded on results of an examn held in July in Grammar, History of the Language and its Relationships, 2 set books, unseen translation Applications (in a prescribed form) receivable by the Director of the School up to May 15

Several Scholarships of £30 tenable for 1 yr in a *Training College for Women* Open to graduates of a British or other recognized Univ

Studentship tenable at the *British School at Rome*, £75 for 1 yr At least 5 months to be spent in Rome. Open to men and women under 25 for a definite course of study for which Rome offers advantages and calculated to assist them in their profession Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any references, should reach the Secy. of the School, 19 Bloomsbury Sq , London, W C 1, by July 31st

Scholarship in *Economics and Home Science*. £50 tenable for 1 yr.

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at King's College for Women, London. Open to graduates of any approved Univ. or students who have successfully completed the 3 yrs' course in these subjects. Evidence required of knowledge of not less than 2 of the following: Bact., Biol., Chem., Economics, Physics and Hygiene, Physiol., Psychol. Applications with account of educational career and not more than 3 recommendations should reach the Warden by June 8.

Studentship in Geography. £80 (in special cases, £100) for a definite course of advanced work extending in general over 9 mos., to be approved by the Trustees. No other work to be undertaken without written consent of the Trustees during the tenure of the Studentship. Open to Teachers of either sex who have had experience in teaching Geog. Applications, stating age, career, training in Geog., experience in teaching Geog., proposed work, time to be devoted to it, name of Headmaster, etc., to whom reference can be made, to reach Prof. Lyde, University College, Gower Street, London, W C 1, by Feb 1. The student is required to sign a declaration of intention to continue to be a teacher of Geog. for 2 yrs. after expiry of the Studentship.

Address of the Secy. to the Trustees. 1 Plowden Buildings, Temple, London, E.C.4.

SIR RICHARD STAPLEY EDUCATIONAL TRUST

Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In three years it has assisted 277 students (including 108 women) at universities. Of its scholarships 8 exceeded £100 in value, 66 exceeded £50, and 178 were of lower value. *Address*—33 Bloomsbury Sq., W C 1.

(vi.) FUNDS ADMINISTERED BY THE ROYAL SOCIETY

Foulerton Research Fund (a) Research Professorship, the stipend being £1400 p.a. *Duties* To conduct, in a place approved by the President and Council of the R S, such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Prof. shall devote the whole of his time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (b) Research Studentship of £700 p.a., restricted to British subjects. *Duties* To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (a) E. H. Starling (v. p. 109), (b) H. W. C. Vines (v. p. 41).

Yarrow Research Professorships for research (whole-time) in Math.,

Physical, Chem, or Engineering Sciences Value, £1400 p a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years Incumbents Prof A Fowler and Prof G I Taylor

Mackinnon and Moseley Research Studentships. Each of the value of £300 p a Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Nat and Physical Sc., including Geol and Astron, and . . . original research and investigation in Path" *Moseley Studentship* for "the furtherance of experimental research in Path, Physics, and Chem, or other branches of science, but not in Pure Maths., Astron, or any branch of science which aims merely at describing, cataloguing, or systematizing" Incumbents L T Hogben, D Sc, and P M S Blackett

Sorby Research Fund for original Scientific research The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ of Sheffield for 5 yrs, renewable for further periods No permanent duties outside the research work may be undertaken Appointments are made by a Committee composed of 4 persons appointed by the Council of the R S and 3 appointed by the authorities of the Univ of Sheffield The last appointment, 1921 N K Adam, M A.

For all the above appointments applications are invited by public advertisement

Scientific Relief Fund (income about £700 p.a.) to aid scientific men or their families requiring assistance

Minor Funds Tyndall Mining Research, income about £35 p a, for a studentship, Gunning, about £30 p a, Joule, about £50 p a, Lawrence, about £160 p a, for research in Diseases in man and animals

Government Grants for Scientific Investigations The conditions are notified annually in time for applications to be received by Jan 1. Only British subjects are eligible Appropriations in 1922-23 numbered 109, the amounts ranging between £10 and £200

Medals Copley, for Philosophical research (any country), Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe, Royal, for advancement of National Knowledge, Davy, for Discovery in Chemistry in Europe or Anglo-America, Darwin (with grant of £100, biennial), for work in Darwinian field, Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice, Sylvester (with money grant, triennial), for Mathematical Research, Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism The 4 last are open to foreigners as well as to British subjects

Address of the Society—Burlington House, Piccadilly, London, W 1

(vii) BRITISH ACADEMY

Rose Mary Crawshay Prize for English Literature, £100 Open to women of all nationalities for historical or critical work, preference

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being given to work regarding Byron, Shelley, or Keats *Address*—Prof Sir I Gollancz, King's College, Strand, London, W C 2

Cromer Greek Prize, £40 Open to British subjects under 26. *Address*—The Secretary of the British Academy, Burlington House, Piccadilly, London, W 1

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Research Committees of the Association are constantly at work either conducting researches or preparing reports Committees of the Sections concerned with different departments of Science consider *inter alia* the financing of proposed researches by such Research Committees *Address* of the Assocn — Burlington House, Piccadilly, London, W 1

ROYAL INSTITUTION OF GREAT BRITAIN

Davy-Faraday Research Laboratories, 20 Albemarle St, London, W 1
Director—Sir Wm Henry Bragg, K B E, M A, D Sc, F R S

(viii) BRITISH SCHOOL AT ROME STUDENTSHIPS

In addition to the scholarships mentioned above under (ii) V. and (v) a Studentship (Bernard Webb) worth not less than £250, tenable for one year, is offered for the encouragement of the historical and critical study of Architecture, open to students not over 32 years of age who have been members of the Archit Assocn for 4 years Student for 1923—Miss I M Chambers The Pelham Studentship in Archaeology (£100), awarded by the Univ of Oxford, is open only to members of that Univ

(ix) BRITISH SCHOOL AT ATHENS STUDENTSHIP

A studentship of value £100 tenable for one year is placed at the disposal of the Univs of Oxford and Cambridge alternately. All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work They can, on payment of a small rent, reside in the School *Hostel*, and are admitted to use of the library They also obtain special facilities for working in Museums and in travelling Students of the British School at Rome are *ipso facto* admitted as students at Athens. *Address* of the Secy., 19 Bloomsbury Sq, London, W C 1.

(x) MARINE BIOLOGICAL ASSOCIATION

A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs of Oxford and Cambridge) and Founders of the Marine Biological

Assocn. of the United Kingdom. The Ray Lankester Fund provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. For full particulars application should be made to the Director of the Laboratory, Citadel Hill, Plymouth

(x1) RAMSAY MEMORIAL FELLOWSHIPS

The Trustees (Chairman, Sir Hugh Bell, Bt. ; Secy, Dr Walter W. Seton, University College, Gower St, London, WC) award from time to time 3 Fellowships, value £300 a yr for 2 yrs, for Chemical research. They can be held in any Univ or other place in the U.K. possessed of the requisite facilities for research, also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the undermentioned Dominion and Foreign countries. The value in each case is £300 a year, except that the Japanese is £460. Fellows for 1923-24: British—R W Lunt, Ph D, S Coffey, Ph D, A F Titley, D Phil, J A Maar, B Sc (Glasgow), T S Stevens, B Sc (Glasgow). Canadian—E H Boomer, Ph D. Danish—K Hojendahl. Dutch—Dr J Kalf. French—Dr H Weiss. Japanese—Dr Kameyama. Norwegian—G Weidemann. Spanish—Dr M Crespi. Swedish—A W Bernton, Phil Lic, Jarl Lublin, Ph D. American, Italian, Greek, and Swiss—vacant

(x11) ALBERT KAHN TRAVELLING FELLOWSHIPS

Founded by M Albert Kahn of Paris "to enable men of proved intellectual attainments to enjoy during one yr or more sufficient leisure and freedom from all professional pursuits or pre-occupations to enter into personal contact with men and countries they might otherwise never have known, to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and endeavours as go to the making of general civilization." Value £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), temporarily increased to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ in the U.K. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made not later than May 31 each yr on nominations made by any of the Vice-Chancellors of the Univs in the U.K., or the President of the Royal Society, or the President of the British Academy. Address of the Secy to the Trustees (F. J Port, LL B): University of London, South Kensington, S W 7. Fellow for 1923-24 W Rander-son, M.Sc. (Lond), nominated by the V.-C of the Univ. of London.

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(xiii.) CANCER RESEARCH FUNDS

The *Imperial Cancer Research Fund* (capital £131,000), which is under the direction of the R.C.P. London and the R.C.S. England, has research laboratories and publishes reports of researches. Lord Atholstan has promised the sum of £20,000 in 10 instalments for special researches to be carried out by it. An anonymous donor has founded an "Alice Memorial Fellowship" for Cancer Research amounting to £500 per annum, under the auspices of the Fund. *Address*—8-11 Queen Square, London, W C 1

Lord Atholstan has also offered a prize of \$100,000 to the graduate or student of any recognized Univ who, within 5 years from the date of his offer (1921), is the first to discover a medicinal treatment for the effective cure of cancer. The decision to be left to the R.C.P. London and the R.C.S. England

The *British Empire Cancer Campaign* was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. *Address*—Hon Sir Arthur Stanley, G B E, C B, 19 Berkeley St, London, W 1

Information as to Cancer Research at Middlesex Hospital, at Manchester, and at Aberdeen is given on pp 151, 169, 247

(xiv) ENGINEERING AND NAVAL ARCHITECTURE

THE INSTITUTION OF NAVAL ARCHITECTS, 5 Adelphi Terrace, London, W C 2, offer for 1924 scholarships tenable 3 years at Glasgow Univ., Armstrong College, Liverpool Univ., R N. College, and City and Guilds (Engineering) College, London. In Naval Architecture, 2 each, value, £150 p a, in Marine Engineering, 2, £150 and £100 p a. Open to British apprentices or students

NORTON AND GREGORY LD, 1 and 2 Castle Lane, Westminster, London, S W 1, offer scholarships in Engineering, one of £100 p a and one of £50 p a, tenable for 3 years at any Univ in the U.K. or British Dominions. Open to candidates domiciled in U.K. aged 17-19. Applications receivable up to Jan 21, 1924

THE BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCN granted in 1923 15 scholarships of £100 plus college fees tenable at Univs and Univ Colleges in Great Britain

(xv) JOHNSTON CHEMICAL SCHOLARSHIP

Value £150 for 1 yr, awarded on the results of an examn in Chem. with Crystallography or Mineralogy, and tenable at Armstrong College, involving at least 24 hours per week throughout the session. Open to B Sc. of any British Univ of not more than 3 yrs' standing from graduation. Evidence of previous training and ability to conduct an original Chem investigation is required. Awarded in 1923 to W Maw

SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY

Fellowships for graduates in Chemistry are offered from time to time. Annual value, £250 to £300 each.

(xvi) GROCERS' COMPANY'S SCHOLARSHIPS

Three, £300 each, for 1 yr, renewable for 1 or 2 yrs, for inquiry into Causation of Prevalent Disease or as to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C. 2. Held in 1924 by Mrs S. D. Thompson, M.B. at Univ. of Liverpool, A. Robertson at London Sch. of Trop. Medicine.

(xvii) KITCHENER SCHOLARSHIPS

For Study and Training. Maximum value in any year £200 for maintenance *plus* tuition fees and, in case of study abroad, approved travelling expenses. Maximum period, 6 yrs., minimum age, 16. Open to sons of officers and men of H.M. Forces—as a rule, sons of deceased officers and men. Value and length of tenure will in each case be such as to enable successful candidates to undertake a complete course of advanced education at any Univ. or other approved institution. Scholarships are offered annually in Jan., conditions being advertised about the middle of the month. The number awarded in 1923 was 65.

Application for full information should be made to the Secy., Lord Kitchener National Memorial Fund, 34 Norfolk St., Strand, London, W.C. 2.

SCHOLARSHIPS FOR ADULTS

The Education Committee of the Lancashire County Council in 1924 offer two Scholarships, the value of which will not be less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. The Scholarships will be tenable for a year and renewable for a year or two more. The Scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved institution. Entry forms obtainable from the Director of Educn., County Offices, Preston.

(xviii) IMPERIAL ORDER DAUGHTERS OF THE EMPIRE SCHOLARSHIPS

Undergraduate, 36, held in Canadian Univs. by sons and daughters of deceased or totally disabled soldiers and sailors. Graduate, 4, held at Oxford in 1923-24. Address of the Order—Dominion Bank Chambers, 238 Bloor Street East, Toronto.

(xix) CENTRAL BUREAU LOAN FUND

THE CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (incorporated), 54 Russell Square, London,

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W C 1, has established a fund to help educated women who must be self-supporting, and are without the means of paying for training or for adequate preparation For University Education, Research Work, Training as Teachers and Training in Medical Work, Midwifery, Nursing, and Massage, 25 loans amounting in the aggregate to £1150 were made in 1922.

(xx) BRITISH EMPIRE EXHIBITION (1924) FELLOWSHIP

A subscription of 2 guineas entitles to membership of this organization and admission to the exhibition at all times The funds will be used to grant scholarships, each to the value of £1000, for University or technical education

(xxi) SIR GEORGE WATSON CHAIR OF AMERICAN HISTORY, LITERATURE AND INSTITUTIONS

Founded by Sir W G Watson, Bt, who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour Each yr's course will usually comprise about 6 lectures by an eminent authority, American or British The courses will be given in the various British Univs in rotation A general Inaugural Lecture was given in London by the late Viscount Bryce, O M, in July 1921 In April 1922 Dr A T Hadley, ex-President of Yale, gave a course of 6 lectures at English Univs on "Some Economic Problems of Democracy" In May and June 1923 Dr. Nicholas Murray Butler, President of Columbia Univ, N Y, gave a course of 9 lectures on "Builders of the American Nation" The Lecturer for 1924 is Prof A F Pollard of University College, London, and his subject, "The Foreign Policy of the United States" The Foundation is administered by the Anglo-American Society, 1 Central Buildings, Westminster, London, S W 1

(xxii) AMERICAN UNIVERSITY AND COLLEGE SCHOLARSHIPS FOR BRITISH STUDENTS

Rose Sidgwick Memorial Fellowship Established by Americans in memory of a member of the British Educational Mission which visited the U S A in 1918, in recognition of her service in the cause of Anglo-American friendship Administered by the American Assocn of University Women Value \$1000 (providing tuition and residence during term for 1 yr, and about \$400 in cash towards travelling expenses and incidental fees), tenable at any approved College or Univ in the U S A English friends of Rose Sidgwick have raised a fund to supplement the Fellowship by providing for outfit, etc, in case of need up to £30 Open to British women (preferably from 25 to 35 years of age) of graduate standing Applications (with 6 copies of not more than 2 recent testimonials and 2 references) giving date of birth and information as to qualifications, experience, work proposed to be done during tenure of Fellowship, and any experience of speaking in

public, should be sent before May 1 to the Secy., British Federation of Univ. Women, 92 Victoria St., London, S W.1. The award is made on the nomination of the Committee on International Relations of the Federation

Choate Memorial Fellowship, \$1850, of the Harvard Club of New York City, 27 West 44th Street Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb to study in any department of Harvard Univ 1923-24—H E Salt, B A, LL B Trinity

Clarence Graff Fellowship, £250 plus tuition fees, open to unmarried men, graduates of Oxford or Cambridge, for advanced study at an institution of learning in the American Middle West (between the Allegheny and Rocky Mountains) Preference to candidates who have had a liberal university training and whose interests are humanitarian rather than commercial or narrowly scientific, the object being to foster a better understanding in Great Britain of social conditions and currents of opinion in the U S A and to establish friendly contacts

Henry P Davison scholarships (6), \$1500 plus tuition fees (about £50) tenable at Harvard, Yale, and Princeton, for one year Open to Oxford and Cambridge undergraduates and B A, unmarried, with preference to those in their second year intending to read for honours and to resume residence in their own (Oxford or Cambridge) Univ Scholars are chosen on basis of character, scholarship, and fitness to represent the Univ No examn 1923-24 J Bird and W D Macpherson to Harvard, R W E Cecil and E C Moule to Yale, C V Salmon and H St D Nettleton to Princeton

SCHOLARSHIPS FOR WOMEN · BRYN MAWR COLLEGE Three of \$720 (covering fees for tuition and, during term only, board and residence during one academic year) Open to English, Scottish and Irish women qualified for graduate study Applications receivable up to April 1 SMITH COLLEGE, Northampton, Mass—Six fellowships, \$500 and tuition, for women graduates *Rose Sidgwick*—v *supra*.

UNION THEOLOGICAL SEMINARY, N Y CITY. Fellowship in Theol, \$1200 for 1922-23, for advanced graduate work. Open to theol. students of high grade in England or Wales of any ecclesiastical communion who have completed a regular theol course Applications receivable by the Rev the Principal, Mansfield College, Oxford, or the Registrar of the Seminary Latest date, May 1

PRINCETON Jane Eliza Procter Visiting Fellowships Three of \$2000 each annually, for 2 British scholars (to be nominated by the Univs of Oxford and Cambridge) and 1 French, tenable for one year, with possibility of renewal, in Princeton Graduate College, for independent advanced study and investigation in purely liberal arts and sciences, exclusive of professional, technical or commercial subjects, open only to men holding a degree in distinctively liberal studies and of reasonably good health, high character, and exceptional scholarly power. Nominated in 1923. J Stevenson (Camb) and R B McCallum (Ox) Also ten Charlotte Elizabeth Procter Fellowships of \$1200 each annually

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are open to duly qualified graduates of American, British and other univs in the field of distinctively liberal studies Applications for an ensuing academic year should be made directly to the Dean of the Graduate School, Princeton, New Jersey, U S A , before March 1.

MICHIGAN *The Riggs Foundation* Fellowships for British graduates \$1200 each, tenable in the Univ of Michigan, one year. Preference to students of History and Economics Held in 1924 by R I Lovell and Miss M Lindsey.

Many American Universities having " Graduate Colleges " offer Research Scholarships and Fellowships of from \$300 to \$2000 p a which are ordinarily open to Foreign as well as to American students Nearly all the American Univs other than State Univs , and a few of the latter, offer each year fellowships of from \$200 to \$800 which are open to Foreign students Most American Univs close their scholarship lists about March 1 The Institute of International Education (522 Fifth Avenue, New York) published in 1923 lists of fellowships, etc , offered to Americans for study abroad and *vice versa* These may be seen at the American University Union, 50 Russell Sq , London, W C 1

A tentative plan for the establishment of fellowships for British subjects in American Univs has been formulated by President Frank Aydelotte of Swarthmore College, American Secretary of the Rhodes Scholarship Trust The plan has been submitted to several influential bodies and has been approved by the Executive Committee of the American Council on Education

(xxiii) FRENCH UNIVERSITY SCHOLARSHIPS

A scholarship of 8000 fr , open to Austrahians on the completion of studies in England Office National des Universités et Écoles Françaises, 96 Bd Raspail, Paris (6^e)

" La Bienvenue Française," 33, Rue du Faubourg Saint-Honoré, founded in 1923, offered hospitality for one year (1923-24) to a British student of science

(xxiv) INTERNATIONAL FELLOWSHIPS, ETC , OF FEDERATIONS OF UNIVERSITY WOMEN

The American Asscn of University Women offers \$1000 to enable a member of the International Federation of University Women to carry on a year's research in some country other than her own during 1924-25 Applications receivable up to Feb 1, 1924 Address—Prof Agnes L Rogers, Smith College, Northampton, Mass

The Canadian Federation has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the International Federation.

The Swedish Federation's prize of 1000 kr in 1923 was awarded to Mrs Onslow, M A., formerly a fellow of Newnham College, Cambridge

(xxv) GOVERNMENT GRANTS AND CO-ORDINATING AGENCIES

The estimates for 1923-24 provided under the head "Scientific Investigation, etc.," £196,500, of which £130,000 was for the Medical Research Council—v *infra* (xxvii), £35,000 for the National Museum and Library of Wales, £7750 for the Imperial Mineral Resources Bureau, £9000 for the Royal Society—v *supra* (vi), £3000 for the Solar Physics Observatory, £4000 for the Edinburgh Observatory, and smaller sums for 10 other bodies

The Mineral Resources Bureau (2 Queen Anne's Gate Buildings, London, S W 1) undertakes, in addition to collecting, compiling and disseminating information, to advise on the development of mineral resources

The total expenditure during the year 1922-23 of the DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH was £496,400 This included Headquarters Administration, £32,500, Co-ordinating Boards and Committees, £19,180, Grants to Industrial Research Assocns, £95,300, Fuel Research Board, £45,500, Geological Museum and Survey, £56,000, National Physical Laboratory, £165,000, other grants for investigation and research, £82,900

Grants to individual research workers (£48,000) are made on recommendations by individual professors Notes on the conditions under which such grants are made were republished by the Dept in 1923, price 2d, and the Annual Report of the Dept for 1922-23 contains an explanation of the principles determining these conditions and an account of the working of the system (Cmd 1937, price 4s) During 1922-23 the Dept made 252 allowances to students for training in research in Univs and Colleges, 38 grants to research workers to undertake independent research or act as scientific assistants to investigators of standing, 14 grants to scientific workers to enable them to employ laboratory or clerical assistants or to purchase equipment The system is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research

Up to August 1923 the number of *Industrial Research Associations* licensed by the Dept was 25

Developments in the organization of research in the Overseas Dominions are described in an Appendix to the above-mentioned Report

(xxvi) MINISTRY OF AGRICULTURE AND FISHERIES

GRANTS FOR AGRICULTURAL (AND VETERINARY) RESEARCH For some few years past the Ministry has awarded annually Research Scholarships (£200 p a for 3 yrs) to assist promising students—usually honours graduates in Science of a British Univ—to qualify as research workers In 1923 7 were awarded to students of Liverpool, London, Aberystwyth, Bangor, Glasgow, Edinburgh, and Royal (Dick) Vet College In 1921 the Ministry instituted Travelling Research Scholarships for members of staffs of aided research institutions In 1923

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3 were awarded to members of the staffs at Manchester, Waltham Cross, and East Malling

The Ministry has allocated (with a view to the concentration at one institution or at institutions working in combination, of the scientific work in each of certain definite groups of subjects) grants-in-aid for the maintenance of research departments of institutions as follows *Agr Zoology*—London School of Tropical Medicine, *Fruit-growing*—Bristol Univ, East Malling Research Station (near Maidstone), *Animal Nutrition and Plant-breeding*—Cambridge Univ, *Plant Physiology*—Imperial College of Science, *Economics of Agr*—Oxford Univ; *Dairying*—Univ College, Reading, *Plant Nutrition and Soil Problems and Plant Pathology*—Rothamsted Experimental Station, Harpenden, Herts, *Crop Improvement and Seed and Potato Testing*—Nat. Inst of Agr Botany, Cambridge, *Animal Pathology*—Royal Vet College, Camden Town, London, N W 1, and the Ministry's Vet Laboratory, Addlestone, Weybridge Grants are also made for research in Plant-breeding to Univ College, Aberystwyth, Animal-breeding (poultry and rabbits) to Cambridge, Bee-culture to Rothamsted Exptl. Station, Glasshouse culture to Waltham Cross Research Station, Silver-leaf disease research to Camb Univ, Testing new varieties of fruit trees to Royal Hortic Soc

A grant has also been made to enable the Agr Depts of the following institutions to supplement in cases calling for special scientific knowledge and training the advice usually given by members of the county Agr Staffs Armstrong Coll, Bristol, Cambridge, Leeds and Manchester Univs, Aberystwyth, Bangor, Cardiff, and Reading Univ Colleges, Midland, S Eastern (Wye), Harper-Adams (Newport), Midland (Sutton-Bonnington, Notts), and Seale-Hayne (Newton-Abbot) Agr Colleges Grant for 1923-24, £28,500

Special research grants amounting in the aggregate to £3745 for work in 1922-23 were made to Cambridge, Edinburgh, Oxford, Leeds, and Bristol Univs, the Imperial College of Science, the Nat Inst of Agr Botany, the Waltham Cross Research Station, Aberystwyth, Armstrong, S Eastern Agr (Wye), Midland and Bangor Colleges

In a leaflet (197) issued by the Ministry in Sept 1920 (revised Sept 1922) information is given regarding some of the above-mentioned grants and generally regarding Agr Education and Research in England and Wales V also p 547

FISHERY RESEARCH Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund as follows 1 *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work Departments of a Univ engaged principally upon education which may be eligible for grants administered by the Univ Grants Committee are not as a rule eligible for these. Applications in prescribed form are receivable by H M Treasury up to Sept 30 for grants to be made in the ensuing financial year They will be referred to the Ministry for report, and may involve informal inspections by representatives of that Dept and of the Development Commission

2 *Grants for Specific Researches* (a) Directed to definite economic ends of use to the Fishing Industry, or (b) "Free" researches Communications with a view to grants under head (a) should be addressed to the Secretary to the Ministry. As regards grants to Instns. under head (b), the work may be carried on either by members of the staff or by workers temporarily attached to the Instn. or by research students working under the guidance of members of the staff, whose qualifications are approved and who are definitely recommended by the Head of the Instn. The Development Commrs will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff to prosecute special lines of inquiry. Applications should be addressed to H M Treasury and will be dealt with in the same way as those under par 1. In special cases applications for grants under either (a) or (b) in respect of researches by workers not attached to any recognized Instn may be considered.

The amount provided in the Ministry's estimates for 1923-24 for grants under 2 (a) was £900.

Among Grants for Agricultural Research Work in Scotland in 1923 were to Animal Diseases Research Assocn, £18,500, Rowett Research Inst, £11,000, graduate scholarships, £5400.

(xxvii) MINISTRY OF HEALTH AND MEDICAL RESEARCH COUNCIL

The Medical Research Council (15 York Buildings, Adelphi, London, W C 2), formerly the Medical Research Committee established in 1914 under the Nat Health Insurance Act, are now under the direction of a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. 4 Rockefeller Medical Fellowships tenable in the U S A during 1923-24 were awarded by the Council. J C Bramwell, N M Dott, Helen Ingleby, H K Ward.

School of Hygiene (Rockefeller Foundation) The Post-graduate Medical Committee, over which the Earl of Athlone presided, reported in May 1921, and recommended, *inter alia*, that a School should be established in London at which further facilities would be provided for the education of the medical practitioner and for research in preventive medicine. On Feb 23, 1922, the Minister of Health announced that the Rockefeller Foundation had expressed their willingness to provide a sum not exceeding two million dollars towards the cost of the establishment and equipment of a School of Hygiene for these purposes, on the understanding that the Government accepted responsibility for the cost of the staff and maintenance of the School, and that he had been authorized to accept the Foundation's offer. As a result of an agreement made between the Minister of Health, the Rockefeller Foundation, and the Univ of London, to which the new School will be attached, a Transitional Executive Committee was appointed under the Chairmanship of the Minister of Health to take the necessary steps for the establishment of the School on a site already

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acquired in Bloomsbury Negotiations have been opened with other bodies operating in the same sphere as that proposed for the new School with a view to securing their amalgamation or co-operation, and arrangements have been concluded with the London School of Tropical Medicine whereby it will become part of the School of Hygiene, without loss of its own identity A Charter of Incorporation is to be sought for the Governing Body The Director of the School is Andrew Balfour, C B, C M.G, M D, B Sc, D.P H, formerly Director of the Wellcome Bureau of Scientific Research

(xxviii) RESEARCH IN THE COLONIES

A Committee, appointed in Nov 1920 by Lord Milner, then Secy. of State for the Colonies, to consider what steps could be taken to secure the assistance of the Univs in carrying out research work for the Colonies and Protectorates, reported (Cmd 1472, price 2d) in April 1921 that there should be such substantial augmentation of scientific workers in our Univs as will not only foster research among students but also enlarge the corps of scientific experts to whom the Empire may turn for help in the hour of need They drew attention to the large number of appointments which the Colonial scientific departments offer to men adequately equipped for them (Agric 254, Forestry 106, Analytical Chemists 18, Vet 77, Geol 20, Med 649) and recommended that for appointments requiring research qualifications selection should not be by competitive examination but based on recommendations by Universities or Colleges Among organizations other than the Univs the resources of which are available for assisting in the research work in question are the Imperial Bureaux of Entomology and Mycology, the Tropical Diseases Bureau, the Tropical Diseases Research Fund Committee, and the Advisory Medical and Sanitary Committee for Tropical Africa

The West Indian Agricultural College is described on p 396.

(xxix) RESEARCH IN CANADA, AUSTRALIA, AND AFRICA

CANADA An Honorary Advisory Council for Scientific and Industrial Research was constituted in Nov 1916 under a sub-committee of the Privy Council of Canada which had been formed in the same year to have charge of all measures to foster the scientific development of Canadian Industries It consists of 11 members chosen from the Univs, the Engineering Profession and the Industries of the Dominion With the help of Associate Committees comprising over 140 of the leaders of science and industry it has undertaken or promoted important researches in regard to the utilization of peat and of low-grade lignites, methods of re-forestation, Canadian iron ores, action of alkaline waters on concrete, rust in wheat, and some 60 other subjects By the foundation of *Bursaries*, *Fellowships* and *Studentships* tenable in Canadian Univs provision is made each year for the training of young graduates in the methods of scientific investigation On Feb. 20, 1922, the Administrative Chairman presented a report including, in

addition to a general account of the work of the Council, special notes on overlapping and duplication of effort in scientific and technical work, and on proposals for a *National Research Institute*, for which the Government has made a special grant of \$100,000. The number of grants in aid of researches in 1922-23 was 20 and the number of bursaries for 1923-24, 50.

The Province of Ontario provides annually five scholarships of \$1200, open to local graduates, for research study in France with a view to subsequent commercial, industrial, scientific, or professional work in the Province.

AUSTRALIA has a National Research Council which was formed in Aug 1921. Under its ægis a Pan-Pacific Congress was held during Aug and Sept 1923. A Commonwealth Institute of Science and Industry (314 Albert Street, East Melbourne), which co-operates with existing State organizations in the co-ordination of research, training of investigators, etc., has a Forest Products Laboratory at Perth, and has recently established in Melbourne the nucleus of a small physical, chemical, and biological laboratory. In 1923 two of the most important investigations in which the Institute co-operated were in connection with the prickly pear pest and the cattle tick. It was largely instrumental in the formation of an Australian *Engineering Standards Association* with headquarters at Sydney. The *Australian Institute of Tropical Medicine*, Townsville, North Queensland, is under the control of the Commonwealth Department of Health. The staff, consisting of a Director (R. W. Cilento, M.D.), 3 medical officers, and 2 entomologists with technical assistants, etc., performs educational and diagnostic as well as investigational functions.

The NEW ZEALAND Institute, established in 1867, controls 3 funds which are available for grants to aid scientific workers: the Government Research Grant Fund, Hutton Memorial Fund, and N.Z. Institute Endowment Fund. The Cawthron Institute of Scientific Research at Nelson concerns itself specially with agriculture and fruit-growing.

S AFRICA. The Research Grant Board of the Union of S. Africa, created in 1918 as part of the subsidiary organization of the Advisory Board of Industry and Science, considers questions of detail by which the spirit of research may be fostered amongst students and members of the staffs of Univs., Research Laboratories, and Museums. It has provided (a) Grants of from £25 to £200 in aid of Research by members of the staffs of Univs., etc., awarded in the main to persons who have carried out previous research, (b) Research Scholarships of £80 to £130 p.a. for students at Univs., etc., who have taken their B.Sc. degree and show an aptitude for research, administered under the supervision of heads of Departments of Institutions, (c) Scholarships (temporarily suspended) for study of Commerce and Industries Overseas, £250 p.a., of which 4 were awarded in 1920.

None of these are restricted to any particular number. They depend on the number of suitable applications and recommendations.

SOUDAN. At the Gordon Memorial College, Khartoum, are estab-

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lished the Wellcome Tropical Research Laboratories, where research and a large number of routine examinations are carried out by Government Bacteriologists, Chemists, and Entomologists

(xxx) RESEARCH IN INDIA

Under the new Constitution the development of industries is a Provincial transferred subject and the Government policy in regard to research work is to a large extent determined provincially. An account of the *Indian Institute of Science* is given on p 528, there are *Research Institutes* at Pusa (Agricultural), Dehra Dun (Forestry) and Cawnpore (leather, vegetable oils and tinctorial chemistry, etc), at Muktesar Bacteriological Laboratory some research in animal diseases is done, an Indian Lac Assocn has been formed (financed by a cess on exports), projects are in hand for a School of Mines and Geology at Dhanbad, and a Forest Research Institute in Burma. An *Indian Central Cotton Committee* representing the growers and manufacturers of cotton has been formed at Bombay, which places grants-in-aid at the disposal of Provincial departments of Agriculture for research work on cotton. A project for the establishment of a *Technological Institute* at Bombay is in hand. *Medical Research* is carried out at the Central Research Institute, Kasauli, the Calcutta School of Tropical Medicine and Hygiene, the Bombay Bacteriological Laboratory, the King Institute of Preventive Medicine, Madras, and at Pasteur Institutes situated in Kasauli, Coonoor, Shillong and Rangoon. The Indian Research Fund Association finances researches into special diseases in connexion with one or other of these laboratories, and publishes the results in the *Indian Journal of Medical Research*, which is issued quarterly.

The *Bose Research Institute*, Calcutta, was founded in 1917 by Sir J C Bose, M A, D Sc, LL D, F R S, C S I, who continues to direct its work. This is concerned especially with Plant Biology. Publications: *Life Movements in Plants*, vols 1, II, III, *Physiology of the Ascent of Sap*.

(xxxi) RESEARCH IN THE UNITED STATES

The NATIONAL RESEARCH COUNCIL of the U S A, an organization supported during the war largely by the Government but now entirely by private bodies and firms, has published an inventory (Bulletin, Vol 2, No 9, March 1921, \$1, obtainable from the Council Office, 1701 Massachusetts Avenue, Washington, D C) of funds, other than Federal and State Funds, available in 1920 for the encouragement of Scientific Research. It gives particulars of 529 University and College Funds of which the aggregate annual value was 2½ million dollars and of 170 other Funds worth over 18 million dollars per annum. Rockefeller and Carnegie benefactions alone provide over 17 million dollars p a. A revised and enlarged edition of the section of the Bulletin devoted to fellowships and scholarships for advanced work in Science and Technology was issued in Nov. 1923.

The UNIVERSITY CENTRE FOR RESEARCH IN WASHINGTON, constituted in 1921, is maintained by a voluntary association of scholars, to promote and facilitate research in archives, libraries and other collections located in the District of Columbia, on the part of students in the graduate departments of American and Foreign Univs and of others. Technical Divisions of History, Polit Sc, Internat Law and Diplomacy, Economics, and Statistics have been established. Students in foreign Univs and other investigators desiring to avail themselves of its services should apply to the Director of the American Council on Education, 24-26 Jackson Place, Washington, D C

(xxxii) RESEARCH IN FRANCE

Les Ressources du travail intellectuel en France, by MM Tassy and Lérins (Gauthier Villars, 1921), contains lists of "Encouragements et Aides Financiers". The annual value of prizes distributed in France by the national academies and by societies dependent on private initiative is stated to exceed 1,500,000 francs, and an almost equal amount is said to be devoted to subventions to missions, travelling fellowships and other aids to research.

(xxxiii) INTERNATIONAL FOUNDATIONS AND ORGANIZATIONS FOR RESEARCH

FONDATION UNIVERSITAIRE, 11 rue d'Egmont, Brussels, founded in 1920 with a capital of 55 million francs derived from the unexpended balance of the funds of the Commission for Relief in Belgium, aims (1) at helping impecunious young Belgians to take courses in Institutions for higher education and (2) at developing scientific production in Belgium. It makes loans for the first purpose and grants and subsidies for the second. In the year 1921-22 its loans for University study amounted to 844,500 francs, its subsidies to 617,280 francs. The subsidies included grants for study in Brazil 21,208 fr, in European Univs 28,000 fr, for training in Scientific Research 86,416 fr, for research workers 128,589 fr, to periodical publications 332,903 fr. Grants for study in American Universities were made to 34 Belgian graduates and grants for study in Belgian Universities were made to 24 Americans. The Foundation arranges exchange visits of Professors. A club-house was established at 11 rue d'Egmont in 1922 for Belgian Univ Professors.

AMERICAN-SCANDINAVIAN FOUNDATION Travelling Fellowships of \$1000 each for travel and study by American graduates in Scandinavian Univs and *vice versa*, 20 for America, 5 for Denmark, 10 for Sweden, and 5 for Norway. Address—25 West 45th Street, New York City. Applications receivable up to March 15.

FRANCO-AMERICAN SCHOLARSHIP EXCHANGE Administered by the Institute of International Education, 522 Fifth Avenue, New York. Fellowships for American graduates in French Univs (Free tuition, 16; free tuition plus maintenance, 4; 5000 fr, 2). About 28 scholarships for American women in French Lycées and Écoles Normales:

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board, room, and tuition and 30 p c discount on passage each way. About 50 scholarships for French women in American Colleges.

AMERICAN FIELD SERVICE FELLOWSHIPS FOR FRENCH UNIVERSITIES For 1924-25 not more than 10 were to be awarded, value \$1200, tenable for one year, renewable for a second year in certain circumstances. Open to American graduates Secretary—Dr I L Kandel, 525 West 120th Street, New York

NOBEL PRIZES, founded by Alfred Nobel who died in 1896, awarded for contributions to the common good by workers in (a) Physics, (b) Chemistry, (c) Medicine or Physiology, (d) Literature, (e) the Preservation of Peace. The prizes, worth from Kr. 120,000 to Kr. 150,000 each, are awarded for (a) and (b) by the Swedish Academy of Science, for (c) by the Stockholm Faculty of Medicine, for (d) by the Swedish Academy of Literature, and for (e) by a committee elected by the Norwegian Storting. Among the categories of persons qualified for candidature for prize (e) are University Professors of Political Science and Law, of History, and of Philosophy Particulars can be obtained from Nobelstiftelsens Styrelse, Norlandsgatan 6, Stockholm, Sweden. Awards in 1923 (a) R A Millikan (U S A), (b) F Pregl (Austria), (c) F G Banting and J J R Macleod (Canada) [for 1922, A V Hill (England), O Meyerhof (Germany)], (d) W B Yeats (Ireland). Among prizemen of previous years the following have a special interest for English-speaking students (a) 1904, Lord Rayleigh, 1906, J J Thomson, 1907, A A Michelson, 1915, W H Bragg and W L Bragg, 1917, Ch G Barkla, (b) 1904, Sir Wm Ramsay, 1908, E Rutherford, 1914, T W Richards, 1922, F Soddy, F W Aston, (c) 1902, Sir Ronald Ross, 1912, Alexis Carrel, 1922, A V Hill, (d) 1907, Rudyard Kipling, 1913, Rabindranath Tagore, (e) 1903, Sir W R Cremer, 1906, Theodore Roosevelt, 1912, Elihu Root, 1919, W Wilson

FONDATION GEORGE MONTEFIORE offers triennially a prize of the value of 22,000 francs "au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation" Work should be received by April 30, 1925, by M le Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles, 31, Liège (Belgique)

VISSER INTERNATIONAL LAW PRIZE (triennial) Administered by Leyden Univ 5000 guilders Next competition, 1926

KLEIWEG DE ZWAAR prize for work in physical or prehistoric anthropology, 2500 fr triennially beginning 1924 École d'Anthropologie, 15 rue de l'École de Médecine, Paris

INTERNATIONAL RESEARCH COUNCIL, Palais des Académies, Brussels General Secretary—Sir Arthur Schuster, Royal Society, Burlington House This body has been constituted with effect from Jan 1, 1920, in pursuance of a resolution adopted in Nov 1918 at a Conference in Paris at which the principal Allied Academies were represented Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Pure and Applied

Chemistry, Mathematics, Physics, and Radio-Telegraphy. Provisional statutes have been drawn up for similar Unions in Biological Sciences, Medical Sciences, and Geography

UNION ACADÉMIQUE INTERNATIONALE for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political and Social Science The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres Its address is Palais des Académies, Bruxelles

XXV

NOTES ON FOREIGN UNIVERSITIES

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed in 1919 as an alliance of national unions of university students. In Sept 1923, when a council meeting was held at Oxford, national unions of the following countries had joined the confederation: Belgium, Czecho-Slovakia, Denmark, England, Esthonia, Finland, France, Holland, Hungary, Ireland, Italy, Latvia, Poland, Roumania, Scotland, Serbs, Croats and Slovenes, Spain, Sweden, Switzerland. Twelve of these were represented at the Oxford meeting. For information regarding the English and Scottish unions see p 19. Various national university *students' bureaux* have been formed. A conference of representatives of such bureaux formed in Czecho-Slovakia, Denmark, England, Esthonia, Germany, Holland, Hungary, Latvia, Norway, Sweden, and Switzerland, was held in London immediately before the Oxford meeting. Secretary-General—J. Baugniet, Dr Jur, Avocat, Avenue Mohère, 82, Brussels.

THE LEAGUE OF NATIONS COMMITTEE ON INTELLECTUAL CO-OPERATION has established an International University Information Office which issues a Bulletin. Secretary—Prof O Halecki, League of Nations, Geneva.

AN INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1920 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." Address—92 Victoria St, London, S W 1. International Club-houses: in New York—Women's Univ Club, 106 East 52nd St, and Smith College Club, 133 East 17th St, Washington, D C.—American Assocn of Univ Women, 1634 I St, Philadelphia.—The College Club, 1300 Spruce St, Brussels.—Maison des Étudiantes, Chaussée de Warre, 212, Paris.—American Univ Women's club, 4 rue de Chevreuse (VI^e), London.—The Women's Institute, 92 Victoria St, S W 1. As regards International Fellowships, etc., of the constituent Federations, v Appendix XXIV (xxiv).

A UNIVERSITIES COMMITTEE, under the auspices of the Imperial War Relief Fund, was created in July 1920 on the initiative of Lord Robert Cecil. The aim of this Committee has been to relieve professors, men of letters and science, and students, attached to the Universities of Central Europe and Russia, by the collection and distribution of books, scientific periodicals, food, and clothing. These gifts are administered through the European Student Relief Committee of the World Student Christian Federation. The British share of such gifts amounted in the three years 1920-23 to some £81,000. This year (1924) the Universities Committee is concentrating its main effort on the relief of Russian refugee students in Serbia and German students and professors. Address—General Buildings, Aldwych, London, W C 2.

AUSTRIA

The principal institutions for higher education are the Univs of VIENNA, GRAZ, and INNSBRUCK, the College of Catholic Theology at Salzburg, Polytechnics at Graz and Vienna, School of Mines at Léoben, Schools of Agric and Vet Med, Superior Commercial College, Academy of Fine Arts, College of Music, and School of Oriental Languages at Vienna. A report on the condition of intellectual life in Austria, prepared in August 1922 by Prof de Reynold of the Univ of Berne for the League of Nations (Committee on Intellectual Co-operation), was circulated in Nov to Univs and learned societies in all countries with an appeal to save Austria "from the fate of seeing its higher education and learning disappear from sheer want," and suggested, among other means, utilising the Arbeitsmittelbeschaffungsanstalt, associated with the Univ of Vienna Zentralrat der geistigen Arbeiter, for the supply of books, periodicals, and instruments. Since then Herr S Bosel and other philanthropists have contributed largely towards the maintenance of the Univ of Vienna.

VIENNA

Rektor (1923-24) Dr Johannes Doller *Deans of Faculties* and numbers (for 1922-23) of professors and regular students Catholic Theol—Dr T Innitzer, 10 (and 3 Priv Doz), 175, Evang Theol—Dr J Bohatec, 6, 49, Law—H Sperl, 22 (and 51 Pr Doz), 2932, Medicine—Dr A Fischel, 82 (and 235 Pr Doz), 3516, Philos—Dr F E Suess, 86 (and 119 Pr Doz and 21 Lekt), 4692 Prof of English Lang and Lit—Dr Karl Luick

A special leaflet for foreign students is published, and can be obtained (postage should be prepaid) from the Rektor or Dr Adolf Kronfeld, Vienna ix, Porzellangasse, 22. Students of the Philos Faculty can obtain information at the "English Seminar" of the Univ.

An "International Summer School" is held every September. Information can be obtained from the "Sekretar der Wiener Internat Hochschule Kurse," Vienna ix, Boltzmanngasse, 16. Post-graduate Medical courses are held at least 4 times a year, and special medical courses for foreigners at any time. Information can be obtained from the Kursorganisation der Wiener medizinischen Fakultät, Vienna ix /1, Porzellang, 22 (postage should be prepaid). There is an Assocn of American Physicians with headquarters at Spitalgasse, Cafe Klinik.

GRAZ: KARL-FRANZENS-UNIVERSITÄT

Rektor Dr Karl Fritsch *Deans of Faculties* and numbers of students Theol—Dr Anton Michelitsch, 104, Law—Dr Paul Puntschart, 551, Medicine—Dr H Pfeiffer, 1089, Philos—Dr N Rhodokanakis, 672 Prof of English Philol—Albert Eichler

Vacation course for medical practitioners planned for 1924 Extension lectures in winter and spring on literary and scientific subjects There is a "Studentischer Hilfsausschuss," which arranges exchanges of graduate students

BELGIUM

Of the four Universities Gand and Liège are State institutions administered under the control of the Ministère des Sciences et des Arts, which also controls the secondary schools In order to qualify for the State degrees which alone are recognized for the purposes of the laws relating to the practice of professions it is necessary for candidates to have obtained a Certificat d'Études moyennes evidencing the satisfactory completion of six years' study in secondary schools or, in the case of degrees in Physical and Mathematical Sciences, five years' study in professional schools

Brussels is the seat of the headquarters of various International bodies concerned with higher education and research (see Appendix XXIV. (xxxiii)) The "Université Internationale" held its third session in Sept 1922 in the Palais Mondial, Brussels A Semaine Sociale Universitaire is held at Brussels during the summer vacation Secy—F Van Langenhove at the University The Anglo-Belgian Union, 35 Albemarle St, London, W 1, and 32 rue de Namur, Brussels, has a sub-committee for "échanges intellectuels et universitaires," to whom British students may apply for general information, while special inquiries should be addressed to the respective Secretaries of the four Universities For particulars of the "Fondation Universitaire," v Appendix XXIV (xxxiii) The 4th session of the "Université Internationale" planned for Aug 27–Sep 8, 1923, had to be put off, but important developments (financed from America) are expected to take place in 1924

There is a State School of Veterinary Medicine at Cureghem, Brussels (Director—G Gratas) An Agricultural Training College recently established on the Hosseghem estate, Laeken, Brussels, arranges interchange of members with similar institutions in other countries The Institut des Hautes Études de Belgique, 67 rue de la Concorde, comprises sections for Maths, Physics and Chem, Nat Sc, History and Philology, Social, Polit Econ, and Jurid Sciences, Arts and Letters (Secretary C Van den Borren)

At Antwerp is an Institut Sup de Commerce with about 20 Profs The "Colonial University," inaugurated at Antwerp on Nov 22, 1923, by the King of the Belgians, originated as the École Coloniale Supérieure in 1920 It comprises three faculties political and administrative sciences, tropical medicine, and natural sciences The first of these is based on the already existing courses of the École Coloniale, the school of tropical medicine, at Brussels, is to be moved to Antwerp to form the second, while the third will find its nucleus in the group of scientific workers attached to the Musée de Tervueren

At Gembloux a State School of Agriculture with about 20 Profs

At Gand an "Institut Supérieur des Fermentations," rue du Lac

At Liège an École des Hautes Études Commerciales et Consulaires with about 25 Profs , École Libre d'Anthropologie, with 16 Profs

At Mons an École Sup du Commerce with about 20 Profs and a well-equipped and attended École des Mines

At Verviers an École Sup des Textiles with about 20 Profs

BRUXELLES (UNIVERSITÉ LIBRE)

Président du Conseil Dr Paul Héger *Secrétaire de l'Université*
M Jean Willems *Recteur* A Brachel *Présidents des Facultés*
Philos et Lettres—M Huisman, Droit—H Rolin, Sciences—
H Wuyts, Méd—A Depage, Sc appliquées—L Baes École
des Sc Polit et Soc—G Bigwood, École de Commerce—L Wodon

The new School of Medicine, which will be in close connexion with the City Hospital, has received large endowments enabling it to offer ample facilities for advanced study and research. In addition to the regular courses for undergraduates, "Cours libres" in many special subjects, suitable for graduates and practitioners, are given by more than 20 Profs. The "M D Brussels" exams have been discontinued.

A section of Maritime Law was opened in 1922.

The new School of Applied Sciences is also well equipped for research. It has depts of Archit, Aviation (6 Profs), Industrial Chem, Engineering, Mining, Metallurgy, Railways. Admission to the school is by examn—the same for Belgians and foreigners.

It rests with the Faculty concerned to decide on questions of equivalence of foreign academic records with the ordinary Belgian qualifications for admission to Univ courses. Of 388 recipients of Diplômes scientifiques in 1922-23, 59 were foreigners. Total number of students in 1922-23 2110. A "Maison des Étudiants" Co-operative Society managed by students provides cheap and wholesome food and assists students in finding lodgings. A home for girl students offers cheap lodging in comfortable surroundings. Furnished rooms about 100 fr a month, board and lodging from 300 to 600 fr a month. Inquiries by foreign students should be addressed to the Secretary of the Univ, 14 rue des Sols.

The Commission for Relief in Belgium promised in 1922 to build a new library, buildings for colleges of law and philos, and 2 houses for students (men and women).

GAND (GHENT)

Recteur Dr J F Heymans *Secy of Senate* F Wolters
Government Commissary (Administrateur-Inspecteur) Prof A
Roersch, Director of the Technical Schools *Doyens des Facultés*
Philos et Let—F Sévérin, Droit—G Eeckhout, Sciences—J
Meuwissen, Méd—M Henseval *Prés de l'Inst Sup d'Éduc*
Physique—M F Gommaerts *Inspecteurs des études des Éc du*
Gêne Civil et des Arts et Manuf Éc prép—C Servais, Éc Spéciale

—F Keelhoff Prés de l'Ec Spéciale de *Commerce*— Inst
Sup de l'Art et d'Archaeol —Prof L Van Puyvelde

NUMBER OF STUDENTS IN 1922 1309 Of special interest to foreign students are the short courses provided by the École Spéciale de Commerce and facilities for advanced study offered by the Institut Supérieur d'Éducation physique British students who have passed examns qualifying for admission to degree courses in a British Univ can be admitted to degree courses at Gand without further examn Flemish is the official language of the Univ, but instruction in the technical schools of the Univ continues to be given in French as well as Flemish

LIÈGE

Recteur Ch De Jace, Prof of Law and Polit Econ *Doyens des Facultés* Philos et Let —T Mansion, President of the Institut Supérieur d'histoire et de litt orient (President of the Institut Supérieur d'Art et d'Archéologie annexed to this Faculty—H Fierens-Gevaert), Law—J Willems (President of the École Spéciale de Commerce annexed to this Faculty—A Delmer), Sciences—M Huybrechts, Prof of Chem, Méd —C H Willems, Technology (including Institut Electro-technique Montefiore)—P Fourmaner, Prof of Geol

It rests with the Faculty concerned to decide on questions of equivalence of foreign academic records with the ordinary Belgian qualifications for admission to degree courses A special examn in Maths is required for admission to the Faculty of Technology

TOTAL NUMBER OF STUDENTS IN 1922–23 2391, including 1054 in the École Spéciale des Arts et Manuf et des Mines (Faculty of Technology)

LOUVAIN (UNIVERSITÉ CATHOLIQUE)

Rector Magnificus Mgr P Ladeuze, D D *Facultes* Divinity (Roman Catholic), Law, Med, Philos and Let, Science, Sch for Polit and Soc Sc, Higher Commercial Sch, Superior Philos Inst (St Thomas Aquinas), Schools for *Engineering, Mining, Arts and Manuf, Archit, and Electricity, Agronomie Inst*, Sup Sch for *Brewery*, Prep Inst for Tech Schools

For admission to the Schools of Applied Science an entrance examn must be passed Otherwise British students qualified for admission to British Univs may be admitted to courses for the State degrees if their qualifications are considered equal to the Belgian Certif d'Études moyennes, they may also enter without such qualifications for Academic or Scientific non-State degrees Number of students in 1922 3244 by faculties—Div, 87, Law, 416, Med, 863, Philos, 361, Sc, 492, Pol and Soc Sc, 24, Com, 190, Sup Philos, 70, Engin, 444, Agr, 258, Tech, 39

SPECIAL ADVANTAGES FOR FOREIGN STUDENTS Both French and Flemish may be easily learnt. Students can attend, in addition to the

special branches selected, the courses of Language and Literature (especially French) in the Faculty of Philosophy and Letters Louvain being merely a Univ town and centre of intense intellectual life, they have all facilities for acquiring a thorough knowledge of Belgian Art, Lit, and Culture, either through the various series of conferences organized by the Univ and Schools, or in the numerous clubs, societies, and seminars amongst the students, with a professor as chairman, which are most flourishing, and constitute a highly interesting feature of Louvain Univ life

The Library is being rapidly restored, and it now includes 500,000 vols, including 280,000 sent from Germany in fulfilment of the Peace Treaty

BULGARIA

SOFIA

Rector V D Mollov *Deans of Faculties* and numbers of professors and students in each Hist-Philol—St Mladenov, 41, 451, Law—G P Ghenof, 24, 669, Med—C Pashef, 23, 471, Phys—Maths—W Tchakalof, 27, 393, Agronomy—J G S Chlebarof, 10, 123, Theol—St Tsankof (to open, 1924), Veterinary—St Anghelof (organized in 1924), Lecturer in English—Constantine Stephanof

CZECHO-SLOVAKIA

[The following notes are based on information kindly supplied by the Czecho-Slovak Bureau of Information, 8 Grosvenor Place, London, S.W.1]

Universities and High Schools can be established only by law, and the whole of the educational system is administered by the State. School attendance is compulsory for children from 6 to 14 years of age. In the gymnasia and "real schools" which receive pupils at or above the age of 10, courses covering 8 years and 7 years respectively lead to Maturity certificates qualifying for admission to the Univs and High Schools. Adult education is provided for by univ extension lectures. In order to be admitted as a regular student of a Univ it is necessary to pass an exam in Latin. Time spent in foreign univs may be included in the prescribed period of study for the doctorate—ordinarily 8 (Med, 10) terms. In 1923 the Univs and Technical Institutions of Univ standing had 26,000 students.

The Univ founded in 1348 by Charles, King of Bohemia, and amalgamated in 1653 with the Jesuit College of Prague under the name "Charles-Ferdinand," was in 1882 divided into two—a Czech (the Charles) and a German Univ. There are also at Prague Czech and German Technical High Schools, having about 5000 and 2500 students respectively, a Higher Commercial School with a 3-years' course, a State Conservatoire of Music, an Academy of Fine Arts, and an

Observatory. A French Institute was founded in 1920, and an Italian Institute has been planned. The Czech Univ has about 250 professors and lecturers, and about 9000 students, including about 1500 women. The German Univ has about 3000 students.

At Brunn (Brno) are the Masaryk Univ (founded in 1919) with faculties of Philos, Science, Med, and Law, Czech and German Higher Technical Schools, Higher Agric and Vet Schools.

At Pressburg (Bratislava) is the Komensky Univ (founded in 1919), with faculties of law, medicine, and philos. It offers excellent opportunities for research in folklore.

There is a Mining Academy at Příbram. Olomouc has a Catholic theological faculty.

SPECIAL FACILITIES AVAILABLE FOR ENGLISH-SPEAKING STUDENTS

The Director of English Seminar, Prague 1, Veleslavínova, 96, is prepared to answer inquiries by students proposing to study at Prague. Many of the Profs speak English or French. Free Czech courses for English-speaking foreigners arranged. American students' club-house.

PRAGUE: UNIVERSITA KARLOVA

Rector František Pastrnek, Ph D. *Deans of Faculties* and numbers of professors and students in each. Theol (R C)—Josef Kachník, D D, 10, 40, Laws—Antonín Hobza, LL D, 19 (and 14 lectrs), 3045, Philos—F. Krejčí, Ph D, 43 (and 52 lectrs and readers), 1590, Med—Emanuel Formánek, M D, 39 (and 29 lectrs), 2313, Science—Václav Švambera, Ph D, 29 (and 30 lectrs, etc), 1071.

DENMARK

(Contributed by the President, Anglo-Danish Students' Bureau, London Branch)

THE UNIVERSITY OF COPENHAGEN has always been, and is at present, the only Univ of the country. For some time past there has been a general desire to have one more, and the incorporation of the Danish part of Slesvig in 1920 has intensified this need. There are now plans of establishing a second Univ in Jutland, and the seat of this institution is most likely to be *Aarhus*, the largest city but one (about 100,000 inhabitants), which has many advantages for the realization of such a plan in its great hospitals, library, and museum.

HISTORY AND CONSTITUTION The Univ was opened in 1479, in accordance with a Papal Bull of June 19, 1475. Beginning as a School of Theology, and by degrees adding the other faculties when the need for them arose, the Univ, faithful to its historical traditions, still contains only five faculties: Theology, Law (including Political Econ), Medicine, Arts (Det Filosofiske Fakultet), Science (including Maths). Other subjects, which are in England generally treated as Univ. subjects, are taught at special institutions at Copenhagen, not being incorporated in the Univ., but, like it, under State supervision:

Engineering at the Polytekniske Læreanstalt; *Agriculture* at the Royal Vet and Agr College, *Fine Arts* at the Royal Academy of Art, *Music* at the Academy of Music (Musikkonservatoriet)

The academical year is divided into 2 terms (Semestre), beginning on Sept 1 and Feb 1 respectively Christmas holidays Dec 23-Jan 6 Easter holidays Wed before till Tues after Easter Whitsuntide Sat before till Tues after Whitsunday Long vacation June 9-Sept 1 The number of matriculated students of the Univ proper was on Sept 1, 1923 3660 (including 614 women) as follows studying Theology—436 (12 women), Law—930 (47 women), Economics and Actuarial Science—202 (25 women), Medicine—941 (126 women), Arts subjects—581 (159 women), Maths and Natural Sciences—222 (32 women), others—348 (212 women)

The Univ is a self-governing and, to a great extent, a self-supporting institution besides being a State Univ Thus it relies for its income partly on large endowments of bygone ages, and partly on State aid The rector is elected each year by the joint body of the professoriate called Lærerforsamlingen, and the deans of faculties are elected by the faculties *All tuition is free*, and a very great number of scholarships and fellowships are available to Danish students, often including free residence at one of the colleges Nearly all lectures are open to the public without fee or ticket The only fees charged to students are a Matricn fee of a little more than £1, and a similar fee for examns

Rector *Magnificus* for 1924 is Prof H Munch-Petersen, Dr Jur Administrator is Prof Paul Yohs Yorgensen

ADMISSION (I) According to the Statutes any student who wishes to study at the Univ must matriculate The matricn is, however, not an examn, as the entrance examn will generally have been passed by the student as a Final examn on his leaving the school or institution at which he has been prepared for the Univ Thus the matricn simply consists in paying down a fee once and for all of 22 kroner Candidates must bring (1) a certificate from the school or other Univ attended, (11) birth certificate The student will then in due time receive the document styled "Akademisk Borgerbrev" in proof of his being admitted as "Civis Academicus"

(II) Any matriculated student who wishes to attend the teaching of the Univ, and enter for examns, must enter his name on the annual list kept of all students in the course of the month of Sept of each year The student will then receive without any fee or payment an *Identity Card* for the year, enabling him to obtain cards of admission to lectures, courses, laboratories, etc In brief, with this Identity Card in his possession he enters into his rights as "Civis Academicus"

UNDERGRADUATE STUDIES There is no fixed time for the duration of the courses of studies, the candidate can enter for his examn when he thinks fit However, the courses of studies at Copenhagen are generally longer than those at British Univs, the minimum being usually 5 yrs

ADVANCED STUDY AND RESEARCH The Univ offers great advantages for research students by its excellent laboratories and a library

of more than 500,000 vols and 6500 MSS, which, amongst other things, contains the famous Arnemagnæian collection of Icelandic and a very valuable collection of Oriental MSS, also the still greater Royal Library may be mentioned in this connexion. On the whole, as the Univ is situated in the metropolis of the country, it is unique in that its under-graduate and post-graduate students have at their disposal all the facilities afforded by its central position in the midst of all the most important institutions of the kingdom.

BRITISH STUDENTS with a Matricn certificate from their own Univ will be admitted on the same conditions as Danish students, and degrees and certificates will be open to them. For advanced study and research, British students will be admitted to all laboratories, seminaries, and other scientific institutions, provided accommodation is available. Knowledge of English is very widespread in Denmark.

DANISH DOCTORS' DEGREES will, no doubt, be open to foreign students, but are considered some of the most difficult to obtain, and, as far as can be ascertained, have never yet been taken by any foreigners. After having had his thesis recognized by several censors of the Professoriate, appointed by the Univ, the candidate is required to publish it, and then on an appointed day defend his thesis in public, not only against the said censors as chief opponents, but against any one from the audience who wishes to take part in the disputation. Theses should ordinarily be written in Danish, but a summary in a foreign language may be appended. In special cases, *e.g.* when the subject of the thesis, or the public for which it is intended, makes it advisable, permission may be given to employ a foreign language (as a rule, only English, French, or German). A summary in Danish should then be appended to the thesis.

VACATION COURSES The only vacation course so far given in Copenhagen was a *summer course in Agriculture* at the Royal Vet and Agr College from June 25 to July 25, 1920. This course was given to foreign students, with special reference to British students. The lectures were delivered in English by Professors of the College and other agricultural experts on topics like Organization and Co-operation, Animal and Plant Breeding, Dairy Industry, Seed-Testing, Control of Diseases in Animals and Plants, Education, etc. The course included excursions under the guidance of an English-speaking Agr expert to experimental stations, farms of animal and plant breeders, schools, agr summer exhibitions, cattle and horse shows, dairies, bacon and sugar factories, etc.

STUDENTS' REPRESENTATIVE COUNCILS have been founded by the students of the Univ, as well as those of cognate institutions for each college respectively. The joint representative body of these different councils is the *Danish Students' National Council*.

Information Bureau Foreign students who want to study or travel in Denmark can obtain information concerning studies, expenses, travelling, etc., on application to *Dansk Studieoplysningskontor*, 6 Studiestræde, University, Copenhagen K, Denmark. Branch offices have been established in the central Univ towns of different countries.

For England · Anglo-Danish Students' Bureau, 50 Russell Square, London, W C 1

France . Bureau franco-danois des renseignements, 25 rue Servandoni, Paris, VI

In U S A the American-Scandinavian Foundation have undertaken the representation *Address*—25 West 45th Street, New York City

Foreign students will also always be met with the greatest sympathy by the Danish Students' International Committee All inquiries should be directed to—The Secretary, Studiestræde 6, Copenhagen K, Denmark.

FELLOWSHIPS The only Fellowships for foreign graduates who want to study at the Univ are the *Exchange Fellowships* between the U S A and the Scandinavian countries offered by the *American-Scandinavian Foundation* There are 5 each year, and the subjects mentioned in the prospectus of the Foundation are the following Industrial Organization, Co-operative Agriculture, Agricultural Sciences, Bacteriology, Chemistry and Physics, Folk High Schools, Language and Literature, other Humanistic subjects

All applications for these Fellowships, which are of the value of one thousand dollars per annum each, should be directed to—The Assistant Director of Students, The American-Scandinavian Foundation, 25 West 45th Street, New York City.

J H HELWEG.

January 1924

FINLAND

HELSINGFORS (founded in Abo in 1640)

This, the only State Univ in the country, is organized on the same lines as those of the Scandinavian countries Foreigners who are members of a Univ of approximately the same standing may carry on their studies in the several faculties and obtain the degrees All lectures are given in one of the two national languages of Finland, Finnish and Swedish, which are also used in all examns, written and oral Doctors' dissertations may be in these or any of the great living European languages, or in Latin The number of immatriculated students is 2950, of whom 30 per cent are women Female students have in every respect the same rights as men Rector—Prof H Suolahti

DEGREES conferred in the several Faculties Theol—Sacri Min. Cand, Theol Cand, Lic, Dr (Hon) Law—Jur Utr (Justice and Administration) Cand, Lic, Dr (Hon.) Med—Med Cand, Lic; Med et Chir Dr, Odont Cand, Lic, Dr Philos.—Cand, Mag (Hon.), Lic, Dr (Hon.) Phil

Examns also held in Pedagogy, Metallurgy, Agric, Forestry, Gymnastics. Exemptions from the various examns may, if corresponding examns have been passed in a foreign country, be granted by the Chancellor, on the recommendation of the Faculty and the Senate

At Helsingfors also are a State TECHNICAL HIGH SCHOOL, founded

1908, giving a Diploma and a Doctorate of Engineering, and a COMMERCIAL HIGH SCHOOL, founded 1911, giving a M Com Sc, also an INSTITUTE OF GEODESY, founded in 1919

THE ACADEMY OF ABO (Swedish)

Founded 1917, opened 1919 Faculties Humanities, Maths and Nat Sc, Polit Sc, Applied Chem Degrees Master and Dr Phil, Dip and Doct Engin Library, 100,000 vols Teachers, 34, students, 160 Rector—S Johansson, D Ph Scientific publications *Acta Academiæ Abœnsis* (two series *Hum* and *Physica et Math*)

The FINNISH UNIVERSITY OF ABO (Turku), founded 1920, opened 1922 Faculties Humanities, Nat Sc Degrees Cand, Mag, Lic, and Dr Phil Library, 130,000 vols Teachers, 20, students, 120 Rector—A H Wirkkunen

FRANCE

For full information regarding the French Univs students in the U K are recommended to apply to the Office National des Universités et Écoles françaises, London Branch, 50 Russell Square, W C 1 This organization, which is under the direction of M Petit-Dutaillis, one of the Inspectors-general of the Department of Public Instruction of France, has branches also in America (at the Institute of International Education, 419 West 117th St, New York), Spain (Madrid and Barcelona), Portugal (Lisbon), Switzerland (Fribourg), Holland (Amsterdam), and Italy (Florence) It has recently published a volume (*Expansion Scientifique et Universitaire de la France*, Les Presses Universitaires de France, 49 Boulevard St Michel, Paris, 1923), containing (1) reports on its own activities and on the Instituts Français of Florence, Naples, Madrid, Barcelona, London, Prague, and Buenos-Ayres, and the French University Mission in Roumania, (2) regulations regarding foreign service by professors, (3) conventions and agreements concerning scientific and university and other educational relations with Italy, Roumania, Jugo-Slavia, Belgium, Luxembourg, Poland, and Czecho-Slovakia, (4) Special examination for foreign students for admission to French University courses, (5) recognition of foreign academic records as equivalent to baccalauréat, licence, etc, (6) statistics of foreign students in French Univs (in 1921-22, 5926, including Jugo-Slavians, 821, Roumanians, 751, Egyptians, 437, British, 410)

The French Univs which grant degrees and most of the other Institutions of Higher Learning in France, as well as the Lycées and Primary schools, are under the direction of the Minister of Public Instruction The degrees, diplomas and certificates obtainable at the Univs are of two kinds—those of the State and those of the Univ, the latter, while attesting with equal authority the same and other courses of study, do not confer the right to practise a profession in

France Further, the unified control of the Univs has resulted in giving to the degrees granted by all of them a uniform value. In this connexion it is noteworthy that the word " Université " is frequently used to denote not what is signified by the English word, but the entire system of French education of all grades, e g " Professeur de l'Université " means a person *qualified* to teach as such, whether in a university or a lycée or college Uniformity in the essentials of administration does not, however, prevent each Univ from having a character of its own, and their differentiation is accentuated by the practice of devoting special attention to the study of Local History, Dialects, Industries, and Economic Conditions The excessive separation from each other of the several Faculties which was enforced during the nineteenth century for political reasons has given place to a close collaboration which greatly furthers the interests of study and research Associated with the Univs are numerous Institutes and Schools for the cultivation of special branches of knowledge, Technology and Research The Office National draws special attention to the advantages for foreigners of studying in a provincial Univ, where initiation into French life is easier and more intimate relations with teachers and fellow-students can be established than in Paris, and where the cost of living is appreciably lower

Admission to courses of lectures in the Faculties of Science and Letters of the Univs can ordinarily be obtained on payment of the prescribed fees by foreign students of either sex, without difficulty and without any preliminary test of their qualifications, and in many places " sections étrangères " have been organized for their benefit, and, for students of the French Language, Literature, History, Institutions, etc, " Cours spéciaux d'études françaises " It is, however, advisable in all cases and necessary for " immatriculation " (entitling, to take part in all the work of the Univ and utilize its libraries, collections, etc), that the student bring with him a passport or birth certificate, and (though the Dean of the Faculty may allow matriculation without this if satisfied on other grounds as to the candidate's qualifications) an academic diploma or certificate It is also advisable to have the latter as well as the former *visé* by a French Consul On arrival in France a declaration of residence must be made at the Préfecture de Police or Mairie and a certificate, " *récépissé*," of the declaration obtained (free of charge) It may also be necessary to obtain official translations by a " traducteur juré " of the passport, etc

The method of qualifying for a degree is somewhat similar to that prescribed for London External students' continuous residence and attendance on prescribed courses are not required, the candidate's fitness being ascertained merely by examinations For all the State and some of the Univ degrees and diplomas, however, " inscription " at intervals of 3 months is required, but not necessarily at one and the same Univ, and in practice it would be difficult in most cases to pass the exams unless the student had followed the preparatory courses in the Univ

" Inscription " is effected on each occasion by the student himself attending at the office of the Secretary and paying a fee, ordinarily

30 fr *plus* a library fee of 10 fr and, for some courses, laboratory fees. At the first "inscription" must be presented a duly *visé-d* passport or birth certificate with official translation, a diploma or certificate equivalent to the French Baccalauréat and the "récépissé" mentioned above. The Baccalauréat does not correspond with our bachelorship, but marks the satisfactory completion of a course of secondary education. A matriculation certificate of a Univ in the U K is regarded as equivalent to it, but the document, whether a matricn certif or one of equivalent or higher standard, should be accompanied by an official translation and a formal request on stamped (2 fr) paper (obtainable from any stamp-vendor) addressed to the Ministry of Public Instruction for an "équivalence du baccalauréat". All these documents—passport, etc., certificate, translations, "récépissé" and request—must be delivered personally to the Secy of the Faculty or School in which it is desired to register. Graduates seeking to obtain a Doctorat would similarly apply for an "equivalence" of the Licence instead of the Baccalauréat. A decree of July 24, 1922, gives a list of certain degrees which will be accepted without question as equivalent to the French "licence" for admission to candidature for the doctorates in law, science and letters. They include First-class Honours degrees of all the Univs of the U K and the LL B of Scottish and Irish Univs. A Supplementary decree recognizes as equivalent to the French licence for the above purpose L en-Dr, ès-Sc, and ès-Lett of Univs of Laval and Montreal, LL M of McGill, M Sc, M A, and Ph D (in Science or in Arts) of McGill and Toronto.

In nearly all the Univs there are special committees who make it their business to assist foreign students in obtaining all needful information. Students under 28 years of age attending holiday courses in French Univs may obtain tickets at half the ordinary fares for the journey from London and back. In order to get the benefit of these concessions students should apply to the Secretary of the Holiday Course for the requisite vouchers for journeys beyond Paris at least 15 days beforehand, and to the Director of the Office National, 50 Russell Sq, for the journey between London and Paris.

Information regarding details of arrangements for travel to and in France can be obtained free of charge from the Office Français du Tourisme, 56 Haymarket, London, S W 1. Information regarding classes in the French language in London can be obtained from the Institut Français, 1-7 Cromwell Gardens, London, S W 7.

AIX-MARSEILLE

Recteur Padé (at Aix) *Facultés* Droit and Lettres at Aix, Sciences at Marseille, where are also an Institut technique supérieur, École d'Ingénieurs, Inst Colonial with Museum, École de plein exercice de Méd et de Phm, Faculté libre de Droit, and Observatoire. At Endoume, on the sea-coast, is a Laboratory of Marine Zoology. Special booklet for foreign students. Office des étudiants at the Hôtel-de-Ville, Aix, gives advice regarding board and lodging, etc.

ALGER

Recteur. E Ardaillon *Facultés*: Lettres (Doyen—R Basset); Droit (M Morand), Sciences (L Rouyer), Méd et Phm (J Hérail) Certif d'études fr. and Diplôme d'études universitaires for foreign students.

BESANÇON

Recteur M Alengry *Facultés* Sciences (Doyen—M Chaudier), Lettres (Cloché) Ecole de Médecine Ecole de Chimie Industrielle École préparatoire de Méd et Phm Cours de Français pour les étudiants étrangers under direction of M Villat, prof d'Hist Moderne à l'Université (both in terms and vacation) Vacation courses, reorganized in 1920, July 1 to Oct 31 Registration for whole period, 225 fr; 2 weeks, 75 fr, 1 mo, 120 fr, etc Certif d'études fr (Diplôme d'Univ) obtainable by 3 mos' vacation course and examn. Instruction also given by correspondence Special booklet for foreigners. Comité de Patronage (30 rue Mégevand) will supply all necessary information gratuitously

BORDEAUX

Recteur. F Dumas *Facultés* Droit (Doyen—L Duguit), Méd et Phm (C Sigalas), Sciences (E Fallot), Lettres (G Cirot). Observatoire Marine Zool station at Arcachon Special courses for foreigners are provided during the sessions but not in vacations *Address*—Office des étudiants étrangers, 3 rue Jean-Burguet.

CAEN

Recteur. Maigron *Facultés*: Droit (Doyen—Pilon), Sciences (A Bigot), Lettres (A Barbeau) cole prép de Méd et Phm Marine Zool station at Luc-sur-Mer Inst de Droit Commercial. Inst Technique de Normandie Cours de Français pour les étrangers, Easter to June 30 Fee, 220 fr Certif d'études fr de l'Univ or Diplôme élém de Fr, 30 fr *Livret de l'étudiant étranger* and all requisite information obtainable from the Comité des étudiants étrangers, which keeps a list of lodgings. Facilities for research in Geol, Bot, Hist of Normandy

CLERMONT-FERRAND

Recteur. E Bataillon *Facultés* Sciences (Doyen—R Chavastelon), Lettres (A Audollent). École de Méd. et Phm, Inst de Géog, Faculté Libre de Droit; Observatoire Météor, Station Limnologique de Besse, open Aug and Sept, Inst de Chimie et de Tech Industrielles Publications *Annuaire* and *L'Univ de C-F et le pays d'Auvergne*, 248 pp

DIJON

Recteur Th Rosset *Facultés* Droit (Doyen—Deslandres), Sciences (Pionchou), Lettres (G Davy) École prép de Méd. et Phm.

(Dr Broussolle) École de Notariat (M Besson). Special French courses for foreigners during terms and vacations Vacation courses July 1 to Oct 31, Cours Commerciaux, July 22 to Sept 1 Inscription, 1 mo, 100 fr, 6 weeks, 142 fr, 2 mo, 160 fr, etc Academic year fee, 270 fr, half-year (Nov-Feb or March-June), 195 fr List of lodgings and other information obtainable from M P Martenot, 3 rue de Metz.

GRENOBLE

Recteur H Guy *Facultés* Droit (Doyen—L Baileydier), Sciences (E Gau); Lettres (S Chabert) École de Méd et Pharmacie, Inst Polyt (Electrotech. and Paper Manuf), Inst du Géog Alpine, Inst de Phonétique, Inst de Sc Comm; Inst at Florence and Naples Special courses for foreigners are provided during the academic year (Nov 3 to July 31), and vacation courses July 1 to Oct 31. Fees (Droits d'inscription) During the academic year—190 fr each semester, vacation—one month 120 fr, six weeks 160, two months 180, three 230, four 260 No diploma required for matriculation for these courses The Certif d'études fr. may be obtained by examn after one semester or vacation course, Dipl des hautes études de langue et lit fr, or Dipl. d'études sup de phonétique fr, after 2 semesters or 1 semester *plus* vacation course, Doctorat d'Univ (examn fee, 100 fr), after 4 semesters, including at least 2 full attendances (partial dispensation in exceptional cases) The vacation courses have been provided annually for many years, are highly organized, and are attended by foreigners in large numbers Full information obtainable from Comité de Patronage des étudiants étrangers at the Univ There is a hostel and club for women, founded in 1919 (Foyer de l'Étudiante *Address*—Mme. la Directrice)

LILLE

Recteur G Lyon *Facultés*: Droit (Doyen—C Mouchet); Méd. et Phm (P Charneil), Sciences (Chatelet); Lettres (G Lefèvre). Inst de Chimie, d'Electrotech, de Pédag, de Géog, de Papyrologie. Laboratoire de Phonétique Lab of Marine Biology at Portel. At Lille are also Catholic Faculties Theol, Droit, Méd et Phm, Lettres, Sciences, and many important tech and professional schools Courses for Diplôme d'études fr, Diplôme sup pour l'enseignement de la langue et de la lit fr à l'étranger, and Diplôme d'études sup de phonétique fr, Nov 1 to June 30, fee—175 fr for 2 semesters. Partial courses, 1 mo, 30 fr, etc Facilities for research with a view to Doctorat de l'Univ. in letters, economics, science, pharmacy, medicine. Diplomas in Russian, dentistry, elec. engin, chem. Inquiries should be addressed to Office des étudiants étrangers, 9 rue Auguste Angellier. Vacation courses at Boulogne-sur-mer, July 21 to Aug 30, supérieur (littéraire, pratique, or commercial), moyen, and élém. Instruction in French Literature, with special reference to Univ of London, B A, Pass and Honours examinations Fees—2 weeks 55 fr, 3—75 fr, 4—95 fr, 5—110 fr, 6—125 fr For particulars apply to M Guerlin de Guer, Directeur des Cours, 103 rue de Paris, La Madeleine (Nord). Lille has established an Inst. Français in London, 1-7 Cromwell Gardens, S W.7.

LYON

Recteur P Joubin *Faculties* Droit (Doyen—L Josserand), Méd et Phm (I Lépine), Sciences (C Depéret), Lettres (Chabot) École de Chimie Indust, École de Tannerie, Inst Bact, Inst de Chimie, Inst Agron, Station de Biol Marine de Tamaris-sur-Mer, Observatoire, Laboratoires de Photométrie et de Photog, Inst de Droit Comparé, Inst Franco-Chinois, Schools of Law and of Engin at Beirut (Syria) At Lyon are also Catholic Faculties of Theol, Droit, Lettres, Sciences, École Centrale (Tech), École Nat Vét There are a Comité de Tutelle des étudiants étrangers and a Consul Univ for students from English-speaking countries—P Courmont, Prof in the Fac of Méd

MONTPELLIER

Recteur J Coulet *Faculties* Droit (Doyen—M Moye), Méd (J Enzière), Sciences (Godechot), Lettres (J Vianey), Pharmacie (G Massol) Inst de Biol, Botanique, Electrothérapie et Radiog, Jardin des Plantes, Marine Zool Station at Cette Special courses (Elem and Sup) for foreigners during terms at Institut des Étudiants Étrangers, 12 rue des Carmes At Montpellier are also an École Nat d'Agr, an École Sup de Commerce, a Conserv Nat de Musique, and an École Nat des Beaux-Arts

NANCY

Recteur Ch Adam *Faculties* Sciences (Doyen—P Petit), Méd (L Spillman), Droit (F Gény), Lettres (B Auerbach), Pharmacie (L Brunz), Inst Sérotherap, Inst Dent, Inst Chim, Electrotech et de Méc app, Métall et Minier, Agr, Colonial, Géol app, de Brasserie et de Malterie, de Laiterie, Inst Commercial, Diplômes d'Ingénieur de l'Univ Special courses for foreigners Lit, Hist, and Geog, July 7–Sept 27 Bureau de Renseignements de l'Univ, 13 place Carnot, publish a leaflet of Renseignements généraux

PARIS

Recteur P Appell *Faculties* Lettres (Doyen—F Brunot); Sciences (M Molliard), Droit (Berthelemy), Méd (H Roger); Pharmacie (Radais) École Normale Sup, Inst de Méd coloniale, de Méd légale, de Puériculture, de Chimie app, aérotechnique, Inst. de Pédag, School for preparation of professors of French in foreign countries, and numerous other Insts in the Faculty of Letters Special courses for foreigners are provided at the Sorbonne under the care of the Société des Amis de l'Univ de Paris The special courses are conducted in vacations as well as during the "année scolaire" No diploma is necessary for admission Fee for 4 months' course, 300 fr; 1 month 100 fr. The Vacation courses at the Sorbonne are from

July 1 to Sept 30—France of the past, and Oct 1-31—France after the war (literature, fine arts, philos, politics) Accounts of the numerous official and other Institutions of higher learning in Paris, of the Libraries, Laboratories, Museums, etc, and of the Associations organized for the benefit of students are included in the *Livret de l'Étudiant*, issued by the Bureau des Renseignements at the Sorbonne Number of students in 1922-23 in the faculty of Law, 9484, Méd, 4886, Sciences, 3037, Lett, 3093, Pharmacie, 685

POITIERS

Recteur L Pineau *Facultés* Droit (Doyen—A Girault), Sciences (J Welsch), Lettres (P Boissonnade) École prép de Méd et Phm, Lab d'analyses agr., special practical courses, open to candidates without diploma, in the departments of Industrial Electricity and Industrial Chemistry Special courses for foreigners Special Certif d'études littéraires for foreigners (examn fee, 20 fr), Certif d'apt à l'enseignement du Français à l'étranger (examn fee, 50 fr), Doct de l'U, mention "Lettres" (examn fee, 100 fr) Vacation courses at Tours, July 1 to Sept 30 Comité de Patronage assists foreigners in arranging for board and lodging, Secy—M Castelain, Prof of Engl Lit, 18 place de la Liberté Illustrated booklet in French and English

RENNES

Recteur H Gérard-Varet *Facultés*. Droit (Doyen—M Turgeon), Sciences (G Moreau), Lettres (G Dottin). École de plein exercice de Méd et Phm Special French courses (French Phonetics, French Lit and Hist) for foreigners during terms, vacation courses at the Collège de St-Servan Aug 1 to 31, 1924, in French Lang and Lit, Phonetics, History, Geog, and Instns of France Facilities for research in Celtic Inquiries may be addressed to Office des Étudiants étrangers, Faculté des Lettres, place Hoche, Rennes At Rennes is an École Nat d'Agr

STRASBOURG

Recteur S Charléty *Facultés* Théol Cath (Doyen—Abbé Martin), Théol Prot (Ehrhard), Droit (Beudant), Méd (G Weiss), Sciences (Muller), Lettres (Pfister), Pharmacie (Jadin) Observatoire, Inst de Chimie et de Physique, Centre d'études médiévales, Inst commercial d'enseignement sup Special courses of the Inst d'études françaises modernes, Nov 1 to Feb 28 and March 1 to June 30 Vacation courses in French and in German, beginning July 1 Special facilities for research in Physics and Maths, Bact, Civ. Law, Comparative Lit, Mediæval Studies, etc Inquiries may be addressed to Bureau de Renseignements pour les étudiants étrangers at the Univ Special Club for British students at 2 rue Geiler.

TOULOUSE

Recteur J. Cavalier. *Facultés*: Droit (Doyen—M. Hauriou); Méd et Phm. (E. Abelous), Sciences (P. Sabatier); Lettres (H. Guy) Inst de Chimie, Electrotech et de Méc app, d'études méridionales, Observatoire, Stations d'Hydrobiologie et de Pisciculture, Agricole, d'essais de semences et de path végétale, Hydrol, Union of French and Spanish students of the French Inst of Madrid École Nat de Méd Vét Vacation courses at Bagnères-de-Bigorre and Burgos in July, Aug., Sept, including French for foreigners and Spanish for French and others The Inst Français organizes each year in important towns in Spain series of conferences attended by distinguished French professors of various branches of Science Bureau des Renseignements, 4 rue de l'Université

GERMANY

German university statistics show that the student populations are much larger than they were before the war The numbers of matriculated students in the five years 1913, '14, '19, '20, '21 (summer semesters) were, in thousands. men—57, 57, 81, 78, 79, women—3, 4, 8, 8, 8 In the Technical High Schools the increases have been even greater—from 12 to 23 and from 1 to 3 In 1921-22 students were distributed as follows (in thousands).

UNIVERSITIES Berlin, 13, Bonn, 4, Breslau, 4, Erlangen, 2, Frankfurt, 4, Freiburg, 3, Giessen, 2, Gottingen, 3, Greifswald, 1, Halle, 3; Hamburg, 3, Heidelberg, 2½, Jena, 2½, Kiel, 2, Köln, 4, Königsberg, 2, Leipzig, 6, Marburg, 2, München, 9, Münster, 3, Rostock, 1; Tübingen, 3; Würzburg, 3

TECHNICAL HIGH SCHOOLS Aachen, 1, Berlin, 4, Braunschweig, 1, Breslau, 1, Darmstadt, 3, Dresden, 2½, Hannover, 3, Karlsruhe, 2, München, 4, Stuttgart, 2

An Akademisches Auskunftsamt at Berlin (C 2, Universitätsgebaude) has issued a leaflet for foreign students regarding conditions of study in Germany, and is prepared to answer inquiries (if accompanied by a remittance to cover postage) Inquiries regarding student organizations, etc, may be addressed to Auslandsamt der Deutschen Studentenschaft, Untere Maschstrasse, 15, Gottingen Prospectuses of the courses can be obtained from the several universities in Feb and June for the summer and winter semesters respectively A few details are given below regarding universities from which returns have been received See also p 676.

BONN. *Rektor* Prof Dr Cithorius *Deans of Faculties* and numbers of teachers and students in each Theol. (R C)—Neuss, 17, 374; Theol. (Ev)—Pfennigsdorf, 16, 59, Law—Schreiner, 20, 477, Med.—Hirson, 65, 508, Philos—Poppelsdorf, 105, 1034. Agric. High School, 26, 678

Vacation courses, 1924. April 22-25, in Comparative Religion. Secy.—Prof C. Clemen, Hindenburgstrasse, 89 Aug 3-9, in Modern Languages, Prof Dibelius, 47 Lessingstrasse

GIESSEN *Rektor* R Lagueur *Faculties of Theol, Law, Med, Philos.* Special depts of Agric, Forestry, and Vet Sc Short courses suitable for foreign students in German Hist, Art, Lit, Lang, Pol. Econ English-speaking students should apply for information to *Englisches Seminar* der Universität, Ludwigstrasse, 19 English Lektor, Dr Spira, Ludwigstrasse, 19, Asst, V S Bayliss, Landmannstrasse, 18.

HEIDELBERG *Rektor* Prof Dr E. Kallius *Deans of Faculties* and numbers of profs and students in each Theol—G Beer, 11, 82, Law—K Heinsheimer, 21, 632, Med—R Wolmanns, 60, 634, Philos.—A Weber, 68, 974, Nat—Math—H Liebmann, 35, 330

WÜRZBURG *Rektor* Prof Dr Kneip *Deans of Faculties* and numbers of students in each Theol—Hehn, 141, Law and Polit. Sc—H Schanz, 1288, Med—Braus, 790, Philos—Marbe, 710. Special (enhanced) scale of fees for foreign students

HOLLAND

For full information regarding the Netherlands Univs. students are recommended to apply to the Office of the Netherlands Committee for international academic relations—temp address, 33 Wasstraat, Leyden This Committee was established in 1921 with a view to promoting the study of foreigners in the Netherlands and *vice versa* and to strengthening the relations between Dutch and foreign Univs A *Guide-book for Foreign Students in Holland*, in English, has been published by it The Committee's Secretary has kindly supplied the Universities Bureau with the following summary

The Netherlands Univs —by which term are also denoted here the so-called "Hoogeschole" or High Schools, which are on equal footing with the ordinary Univs—are governed by a Board of Curators, which forms an intermediate body between the Univs and the Government, the Municipality, or the Private Corporation by which they are controlled. Internal matters are regulated by the Academical Senates, consisting of the entire body of professors and presided over for annual terms by one of them, called Rector Magnificus Owing to their relatively modern origin, the Dutch Univs have never possessed the college system The teaching staffs, though quite adequate, are not so extensive as in some other countries, since the system of private lecturers is not very much developed The equipment in the way of laboratories and other means of research is generally excellent, and the attendance at the Dutch Univs being comparatively small, they provide excellent opportunities to students for research and post-graduate work under the direct supervision of the professors

The ordinary courses of lectures are open to everybody at an annual

fee of 300 guilders Persons not entering for examns are allowed to follow one or two single courses at a fee of 40 guilders each

Admission to examns is granted—as far as British students are concerned—to holders of one of the following certificates, which have been specially recognized Bachelor, Master or Doctor in the Faculty of Arts of any Univ of the U K or Laval, Montreal, Toronto, Victoria (Toronto), Adelaide, Melbourne, Sydney, N Z, Cape Town, Allahabad, Bombay, Calcutta, Madras, Punjab Other exemptions may be granted on application in individual cases by the Minister concerned on advice of a Faculty and the Senate

The so-called Academical Statute of 1921 has fundamentally altered the studies at the Univs proper, and leaves the students considerable liberty in the choice of their subjects Full particulars will be found in the guide-book mentioned above The degree of Doctor is acquired after having passed the doctorate examn by writing and defending a dissertation accompanied by at least 6 theses Other languages than Dutch are allowed Exemption from one or more of the Univ examns may be granted to individual foreigners in possession of diplomas or degrees by the Minister concerned on the advice of a Faculty and the Senate, as above

Division of the Academical year in semesters or terms is unknown in Holland The Academical year begins about Sept 20 and lasts until about July 10

The cost of living, everything included, may at present be estimated at about £150-£200

AMSTERDAM: MUNICIPAL UNIVERSITY

Rector Magnificus Prof dr R C Boer *Secy of Senate* Prof J H Scholte *Deans of the Faculties* Theol—Prof dr H Hackmann, Law—Prof dr P Scholten, Med—Prof dr P Ruitinga, Maths and Physics—Prof dr Hk de Vries, Philology and Philos—Prof dr Tj de Boer Commercial—Prof dr N W Posthumus *Foreign Correspt* . *Prof dr Ph Kohnstamm

AMSTERDAM: FREE UNIVERSITY

Rector Magnificus Prof dr C van Gelderer *Secy of Senate* Prof dr A A van Schelven *Deans of the Faculties* Theol—Prof dr V Hepp, Law—Prof. dr A Anema, Philology and Philos—Prof dr R H Woltjer *Foreign Correspt* *Prof dr R H Woltjer

DELFT: TECHNICAL UNIVERSITY

Rector Magnificus Prof C L van der Bilt *Secy of Senate* Prof G van Herson *Presidents of the Sections* Universal Science—Prof dr W A Versluys, Hydraulics and Road Constn—Prof C K Visser, Archit—Prof A W M Odé, Mechanics and Naval Archit—Prof L A van Royen, Electrotechnics—Prof G J Elias, Chemical

Technology—Prof dr J G Sleeswijk, Mining—Prof W A Knol
Foreign Correspt · *Prof G A F Molengraaff, Vice-President of the
 Committee

GRONINGEN: STATE UNIVERSITY

Rector Magnificus Prof dr A Kluyver *Secy of Senate* Prof
 dr. F M Th Bohl *Deans of the Faculties* Theol—Prof dr J. Linde-
 boom, Law—Prof dr H van Goudoever, Med—Prof dr W
 Schutter, Maths and Physics—Prof dr F M Jaeger *Foreign*
Correspt *Prof dr J F van Bemmelen

LEYDEN . STATE UNIVERSITY

Rector Magnificus Prof dr H Krabbe *Secy of Senate* Prof
 dr A J Blok *Deans of the Faculties* Theol—Prof dr H Windisch,
 Law—Prof dr A H M J van Kan, Med—Prof dr P Th L Kan,
 Maths and Physics—Prof dr W de Sitter, Philology and Philos—
 Prof dr A W Nieuwenhuis *Prof dr N van Wijk, Chairman of
 the Committee for International Academic Relations *J J L
 Duyvendak, *Secy of the Committee*

NIJMEGEN: ROMAN CATHOLIC UNIVERSITY

(Founded 1923, by the Foundation St Radbaud)

Rector Magnificus Prof dr Jos Schrijnen *Secy of Senate*
 Prof dr J van der Grinten *Faculties* Theology, Law, Philology
 and Philosophy

ROTTERDAM . NETHERLANDS UNIVERSITY FOR COMMERCE

Rector Magnificus Prof dr P E Verhade *Secy of Senate* Prof.
 dr N J Polak *Foreign Correspt* *Prof dr H R Ribbius

UTRECHT: STATE UNIVERSITY

Rector Magnificus Prof dr A J P van den Broek *Secy of*
Senate Prof dr H F Nierstrasz *Deans of the Faculties* Theol—
 Prof dr A Noordtzy, Law—Prof dr C W Star Busmann, Med—
 Prof dr H J Laméris, Maths and Physics—Prof dr N Schoorl,
 Philology and Philos—Prof dr W Vogelsang *Foreign Correspt* :
 *Prof dr H Zwaardemaker

UTRECHT: UNIVERSITY FOR VETERINARY SCIENCE

Rector Magnificus *Prof dr J E W Ihle *Secy of Senate*
 Prof dr J H Hartog

WAGENINGEN : UNIVERSITY FOR AGRICULTURE

Rector Magnificus Prof dr S C J Olivier *Secy of Senate* :
 Prof S P Ham *Foreign Correspt* *Prof dr J. C. Kielstra *De-*
partments of Study : Agriculture, Colonial Agr , Horticulture, Forestry,
 Colonial Forestry.

(The professors whose names are starred,* being members of the
 Committee for international academic relations, are prepared to supply
 applicants with information concerning studies in the Netherlands)

HUNGARY

UNIVERSITY OF BUDAPEST

(Budapesti Királyi Magyar Pázmány Péter Tudományegyetem)

Rector J Bársony, M D *Deans of Faculties* and numbers of
 profs and students in each Theol—A Pataky, 18, 96 , Law—A
 Notter, 57, 1950 , Med —Z Vámosy, 150, 3668 , Arts—J Siegescu,
 160, 1427 Vacation courses, July 27–Sept 15, in history and litera-
 ture, oriental questions, art, geography and economics, and constitu-
 tional law, and, possibly, medicine There is a committee for patronage
 of foreign students (Kulfoldi Hallgatók Bizottsága) *Secy* Dr
 Arthur B Yolland, Prof of English, VI Munkácsy-utca, 23, Budapest
 Students attending summer courses are entitled to diplomatic visé
 and special facilities for boat journey Vienna—Budapest The British-
 Hungarian Chamber of Commerce (Houses of Parliament, Budapest)
 may also be consulted by students intending to visit Hungary Of
 special interest to foreign students are Dr Yolland's lectures which are
 delivered in English, and those on French and German literature which
 are delivered in French and German respectively Cost of full board
 and lodging in private family from £6 to £10 a month

At Budapest there are also a Polytechnic and Academies of Art
 and Music

ITALY

ROYAL UNIVERSITIES Bologna, Florence*, Genoa, Macerata*,
 Milan*, Modena*, Naples, Padua, Parma*, Pavia, Pisa, Rome, Siena*,
 Turin , in Sicily—Catania*, Messina*, Palermo , in Sardinia—Cagliari,
 Sassari*. Those marked * are not entirely State-supported

FREE UNIVERSITIES · Camerino, Ferrara, Perugia, Urbino.

OTHER INSTITUTIONS OF UNIVERSITY GRADE Polytechnics at
 Bologna, Milan, Naples, Padua, Palermo, Pisa, Rome, and Turin ,

High Commercial Schools under the Ministry of Commerce at Turin, Genoa, Milan, Venice, Rome, Bari, and Catania.

For full information regarding Italian Universities the *Annuario del Ministero dell' Istruzione, Roma*, 1923, may be consulted. The Universities are under State control, which is exercised through a Directorate-general for Higher Education, a department of the Ministry of Public Instruction, but the degree courses are no longer prescribed by the State, nor are the standards and legal values of the degrees uniform throughout the country, because a *Royal decree* of Sept 30, 1923 (n 2102), has given a measure of scientific and administrative autonomy to the Universities, so that, still under superior control, each may have its own regulations in conformity with a general State regulation, and its special program of degree courses. These have only an academic value, as after the University studies special State-exams are prescribed for admission to the exercise of professions. The University system is articulated to a Secondary School course of 8 years (5 in the Ginnasio and 3 in the Liceo), culminating in a "Licenza Liceale" obtained normally at the age of 18.

STAFF The chief administrative officer in each University is the *Rettore*, who is appointed triennially by the Government. At the head of each Faculty or School is a *Preside* (appointed by the *Rettore*) or *Direttore* respectively. The instructional Staff consists of *Professori di ruolo* (about 1200 in all—excluding the Free Universities) who receive fixed State salaries, and *Professori incaricati* paid by the Univ.

ORGANIZATION OF STUDIES The ordinary faculties are Law, Medicine and Surgery, Physical, Mathematical and Natural Sciences, Letters and Philosophy. In these four faculties the only degree (laurea) is that of *Dottore*. The degree course covers 4 (in Medicine 6) years. In Engineering a 5 years' course leads to the degree of *Ingegnere* or *Architetto*. Attendance at lectures (which are freely open to the public) is optional, and intermediate examinations are not held, the sole conditions for qualifying for degrees being registration and passing the examn (esame speciale) at the end of each course and the esame di laurea or general examn, at which a dissertation is presented and publicly discussed and theses are orally defended. Requirements for degrees have hitherto included the following:

In the Faculty of *Law*, 18 obligatory courses

In the Faculty of *Letters and Philosophy* candidates for degrees take 12 courses. The following are compulsory subjects for the degree in (1) Letters or (2) Philosophy respectively. (1) Italian, Latin and Greek Literatures, History of Philosophy or Theoretic Philosophy, (2) Theoretic Philosophy, Pedagogy, Moral Philosophy, History of Philosophy, Experimental Psychology, Italian and Latin Literatures, either Greek or some Modern Literature or Ancient or Modern History.

In the Faculty of *Physical, Mathematical and Natural Sciences* the doctorate may be taken in Mathematics or Physics or Chemistry or Natural Sciences. A scheme has been prepared for mixed degrees in Physical Science and Maths, and in Physical Science and Nat Sc,

intended for teachers who are required to instruct in a group of scientific subjects

In *Medicine* the instruction is of an eminently practical character *Dentistry* is taught as a branch of Medicine, and there is in connexion with each Medical Faculty a School of *Pharmacy* which confers after a 4 years' course a diploma giving the right to practise the profession of Pharmacy, and after a 5 years' course the degree of Doctor of Chemistry and Pharmacy

For the degree of *Engineering* or *Architecture* the first 2 years, devoted chiefly to Mathematics, Chemistry, Elementary Architecture, and Ornamental Design, may be taken in any Univ, and the 3 subsequent years in the Polytechnic at Turin, the Higher Technical Institute at Milan, the Engineering School at Padua, or the Naval School at Genoa. Post-graduate courses leading to a special diploma are provided in Turin and Milan

The *Veterinary* School course covers 4 years and leads to the degree of Dottore in Zooratria

ADMISSION OF FOREIGNERS Foreigners who have completed the entrance requirements of an approved Univ in their own country may enter the Italian Univs, and those who have already completed one or more years of study in their own Univs may be given advanced standing, even to the extent of being allowed, if their studies have already included courses equivalent to those prescribed for an Italian degree, to present themselves forthwith for the final examn without taking any further courses. Except in very exceptional cases, however, a candidate who has not completed at least a year's work in the Italian Univ is not likely to succeed in passing the examn. It is important that foreigners should bring with them properly authenticated academic records and birth certificate countersigned by an Italian consul. Foreign students are exempted from all university fees, and are even eligible for maintenance grants from a fund from which grants are also made to Italians studying abroad. Unmatriculated "uditori" may obtain certificates of attendance at courses and of passing examns

SPECIAL NON-PROFESSIONAL DEGREES (laurea speciali rilasciate a titolo di particolare cultura scientifica) These were instituted in 1917 specifically for foreigners, but are also open to Italians. Like the regular professional degrees they imply 4 years of study and at least 12 courses, but the student is allowed more freedom in his selection of courses and they confer no right to practise a profession. A graduate, whether of an Italian or of an approved foreign Univ, need not spend more than one year in residence. The degrees are conferred only by the Royal Univs

RESIDENCE The Universities do not provide or undertake any responsibility in regard to lodgings. Living expenses are in general lower than in England, especially in Naples, Bologna, Florence and most of the smaller cities

TEACHING POSTS IN SCHOOLS Candidates for posts as teachers of modern foreign languages in Secondary Schools are required to pass

written and oral tests in Italian and in the foreign language, and to give a demonstration lecture. These exams, which are rather severe, are open to foreigners who can produce satisfactory evidence of having had a good general education.

The SERENA FOUNDATION, 1,000,000 lire, for the encouragement of the higher study of English at Italian Univs, is administered by a Committee of the British Italian League. The income is to be divided between the Università Bocconi of Milan and the British Institute of Florence.

BOLOGNA

R UNIVERSITÀ *Rettore* P Sfameni *Faculties* Law, Preside—E Costa, Med—G Viola, Science—L Majorana, Philos and Letters—P Ducati. Number of students in the several Faculties 320, 785, 397, 224, in the graduate school for teachers, 487, School of Pharmacy, 198, Vet Med, 196, Agric, 212, Obstet, 110, Dent, 26. The Univ Institutes are numerous and well equipped. Among them is one for the study of criminology and police methods. Annexed to the Univ are an Engineering School with 284 students, and a School of Industrial Chemistry with 114.

R ISTITUTO DI BELLE ARTI 70 students Archt, Sculp, Geom

CATANIA

R UNIVERSITÀ Number of students in Law, 559, Med, 431, Science, 345, Philos and Letters, 290, School of Pharmacy, 63, Normal School, 170. Observatory of Astrophysic and Volcanic phenomena.

FIRENZE (FLORENCE)

R UNIVERSITÀ Number of students of Philos and Philol, 239, Med, 551, Science, 214, Pharmacy, 41, Obstet, 48, Dent, 8, in Graduate School for Teachers, 462. The Doctorate is conferred in Letters, Philos, Nat Sc, Chem, Med, Pharmacy. Spring and summer courses for foreigners in Italian lang and lit, art, hist, and geog, May 12–May 31, July 21–Sept 8, 1924. Fee for course, 150 lire, examn, 50 lire. Average *en pension* terms, 25–35 lire a day. For enrolment and information apply to Segretario Corsi per Stranieri, 2, Piazza S Marco, Florence, who undertakes to find lodgings if requested.

At Florence are also an Inst of Social Science providing training for government offices and public life, Training School for Women Teachers, Schools of Fine Arts, Music, Forestry, Colonial Agric.

The BRITISH INSTITUTE, Palazzo Antinori, Piazza Antinori, 3, comprises a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library, and the organizing of lectures, concerts, etc. Director—Dr H Goad. Profs—G Ferrando, A Ricci. Teachers—Mme C Orsi-Plucknett, Miss H M R Cox, Miss M Cave. Number of students (1923) 140. About 75 classes or lectures weekly during 8 months.

GENOVA (GENOA)

R UNIVERSITÀ Number of students in Law, 388, Med, 375; Nat Sc and Maths, 369, Philos and Letters, 118 Numerous special schools for medical experts, apothecaries, teachers of elementary schools, and numerous Institutes for practical exercises The Botanic Garden has recently acquired the Bicknel herbarium of Bordighera.

Among other Institutions for Higher Educn in Genoa are: R Sc. SUP. NAVALE, R IST SUP DI STUDI COMMERCIALI (600 students), ACCADEMIA DI BELLE ARTI (3 years and higher courses, 340 students)

MILANO

R UNIVERSITÀ Constituted in 1923 At Milan are also

R *Istituto-Tecnico Superiore* About 2700 students Among the subjects provided for in special Schools and Labs are Paper manuf, Textiles, Oils and Fats

RR *Istituti Clinici di perfezionamento* for advanced study and research, open only to Medical graduates The Dental School is of very high standard The Clinic for Occupational Diseases has served as a model for other countries

R Sc Sup di Med Vet, 125 students

R Sc Sup di Agricoltura, 200 students

R Accademia di Belle Arti, about 10 profs

R Conservatorio di Musica, about 30 profs

Università Commerciale Luigi Bocconi (independent), about 300 students and 30 profs and lectrs Confers a degree of Doctor of Econ and Com Sc (4 yrs' course) To receive half the income of the Serena Foundation (v *supra*)

NAPOLI (NAPLES)

R UNIVERSITÀ Number of students in Law, 2299, Med, 2350, Philos, 666, Science, 3282, in Normal School, 690, Pharmacy, 491. Notable Botanic Gardens, Astron Observatory, Vesuvian Observatory, Zoological Station with Museum, Aquarium, and Laboratories providing unequalled facilities for study of Marine Biology

R Sc SUP POLITECNICA. 1600 students Provision for specializing in Civil, Industrial (Chem or Electro-mech) and Naval Engineering

R Sc SUP DI MED VET 700 students

R ISTITUTO ORIENTALE Sections: Languages, Colonial Culture, Experimental Station of Hygiene and Colonial Biology.

PADOVA (PADUA)

R UNIVERSITÀ *Faculties*: Law, 456 students, Med, 747, Science, 360, Philos and Letters, 183 School of Pharmacy, 230

Annexed to the Univ. is an Engineering School (2746 students), with provision for specialization in Hydraulics (4 Special Laboratories), Drainage, Chemical E, Electrical E

The courses (Nov-June) in Italian and Romance Literatures, History of Italian Law, Polit Econ, Statistics, etc, are arranged so that each term's work is a self-contained unit and they can be taken with profit for a single year. Facilities for research in History of Fine Arts, Slavonic Langs and Lit, Hydraulics. Exemption from fees allowed to students obtaining high percentage of marks. A *Mensa Universitaria* provides good meals at low prices for Profs and students.

PALERMO

R UNIVERSITÀ. Number of Teachers, 84, students in Law, 600, Med, 800, Science, 460, Philos and Letters, 300, School of Pharmacy, 110. Annexed is an Engineering School with 30 teachers and 492 students. There are also State Institutes of Fine Arts and Music, Royal High School for Commercial and Colonial training, and a Royal College for girls (foreign as well as Italian).

PAVIA

R UNIVERSITÀ. Number of students in Law, 450, Med, 499, Science, 197, Philos and Letters, 86. Schools of Pharmacy and Indust Chem.

PERUGIA

LIBERA UNIVERSITÀ. Number of students in Law, 95, Med, 111, Vet Med, 35, Phm, 43, Obstet, 23. Vacation courses in History, Archit, Drama, etc, were held in Sept 1922.

PISA

R UNIVERSITÀ. Number of students in Law, 271, Med, 257, Science, 444, Philos and Letters, 186, in Engineering School, 200, Agric, 133, Vet Med, 22, Pharm, 21. Notable Institute of Experimental Physics and Meteorology. Connected with the Univ is a Higher Normal School for Teachers for Secondary Schools.

ROMA

R UNIVERSITÀ. *Rettore* Dr G Sanarelli. Presidents of Faculties Philos and Letters (with School for Teachers, Schools of Archæology and of Oriental Studies, advanced courses in Art, Philology, and Pedagogy)—Dr. N Festa, Mathematics, Natural and Physical Science (with School for Teachers and special course of Sciences as applied to Agri)—Dr G. Fano, Jurisprudence (with Applied Criminology)—Dr A Salandra, Medicine and Surgery (with Pharmacy)—Dr E. Pestalozza.

Summer School for American students, in connexion with the Univ , at Palazzo Salviati, Via del Corso Italian language (daily lessons), and Literature, Art, Archæology, History (19th century), Economic and Social Development

OTHER STATE INSTITUTIONS School of Engineering (Director, Prof A Ciappi), three Commercial Schools, Scuola Magistero Femmine (High School for women preparing for teaching, etc)

OTHER INSTITUTIONS CONFERRING DEGREES Collegio Romano (Pontificia Università Gregoriana) Philos, Theol, and Canon Law, Collegio Urbano di Propaganda Fide Philos, Theol, Collegio Pontificio Internazionale Angelico Philos, Theol, Canon Law, Collegio di S Anselmo Philos, Theol, Canon Law (for Benedictines only), Pontificio Seminario Romano di S Apollinare Canon Law

OTHER INSTITUTIONS OF HIGHER LEARNING Pontificio Seminario Romano Maggiore, Istituto Biblico for Biblical Studies, with which is now joined the Istituto Orientale for Oriental Studies, Collegio dei Nobili Ecclesiastici, Scuola Sup di Musica Sacra, and numerous national and other colleges for training of ecclesiastics

Many FOREIGN SCHOOLS of Art, Archæology, etc , are maintained at Rome Among these are

(1) The British School, Valle Giulia, Rome (51) Director, T Ashby, D Litt, FSA, Hon A R I B A, Asst Director, Mrs S Arthur Strong, LL D, D Litt, FSA Constituted under Royal Charter *Faculties* (a) Archæology, History, and Letters, (b) Architecture, (c) Painting, (d) Sculpture, (e) Engraving Open to holders of Scholarships See Appendix XXIV (viii)

(2) The British Academy of Fine Arts, Via Margutta, 53 B Open to all British artists Director, Prof A Sciortino

SIENA

R UNIVERSITÀ. Number of students in Law, 191, Med, 123, Phm, 34, Obstet, 13 Vacation course held in 1922 for foreigners

TORINO (TURIN)

REGIA UNIVERSITÀ *Rettore* Vittorio Brondi *Faculties* Law, Preside—L Einaudi, Med—P Giacosa, Philos and Letters—L Valmaggia, Science—C Somigliana Number of students in the several faculties, 1619, 545, 227, 370, School of Pharmacy, Preside—O. Mattiolo Numerous Institutes and special schools, those attached to the Faculty of Med, 22 in number, include the Laboratory and Museum of Legal Med and Anthropology, founded by Lombroso in 1876

The courses are annual from Oct 15 to June 15 Of special interest to British students is the course of Comparative (English and Italian) Law of Prof M Sarfatti, peculiar facilities are available in the Univ Library for research in this subject

"La lega Italo-britannica" (Pres avv Armissogho, 18 Piazza

Statuto, Torino), in correspondence with the British-Italian League of London, is prepared to answer inquiries by British students and help them in finding lodgings, etc

Among other Institutions for Higher Education in Turin are :
 R POLITECNICO Director—Colonnetti, number of students about 2000, complete 5 yrs' courses in Civil and Indust Engineering, Archit, Electro-technics, Electro-chemistry, and Industrial Art, R SCUOLA SUP DI MED VET, R ISTITUTO SUP DI ST COMMERCIALI (400 students), R ACCADEMIA ALBERTINA (Painting, Sculpt, Archit)

VENEZIA

R ISTITUTO DI BELLE ARTI 15 Profs of Archit, Sculpt, Painting, Geom, etc Number of students (1922-23), 85

R ISTITUTO SUP DI SCIENZE ECON E COMMERCIALE Confers a Doctorate About 35 Profs Courses include Civ and Internat. Law and Procedure, Arabic and Slave as well as other Modern Langs, and usual subjects taught in Comm'l schools Number of students (1922-1923), 700

LATVIA

The State Univ of Latvia, Riga (*Rector* Prof J Rubert), founded in 1919, has faculties of Archit, Engin, Mech, Chem (including Pharmacy), Agric (including Forestry), Med (including Dent), Vet-med, Maths and Nat Sc., Law and Econ, Philol and Philos, Theol Number of students, Jan 1924, 5999 There is an enhanced scale of fees for foreigners English is one of the first foreign languages to be taught in the schools Besides the Univ, there are in Riga academies of Art and Music.

LITHUANIA

The UNIVERSITY OF LITHUANIA, KAUNAS (KOVNO) was opened in Feb 1922, with faculties of theology and philosophy, humanities, law, mathematics and natural sciences, medicine and technical science (engineering, chemical technology, architecture, etc) It has 45 professors, 37 docents, and 35 members of the junior teaching staff, while there are more than a thousand students It appeals to cultural institutions to help in the establishment of a library by sending books and other publications

NORWAY

The only Univ is Det Kongelige Frederiks Universitet at Kristiania, where also is a Theological College Other institutions of interest to students are the Geophysical Inst, Bergen, and Biological Inst, Drøbak (July and Aug) Courses in Oceanography are given at Bergen The

Agric College, Aas, and Technical High School, Trondhjem, are not at present available for foreign students. Student Associations to which foreigners are admitted exist at Kristiania, Trondhjem, and Aas. Information regarding conditions of study in Norway can be obtained from Studie-oplysningskontoret, Universitetet, Kristiania.

KRISTIANIA

Rector Prof F Stang *Treasr*—J Theiste *Secy*—H C Wolner *Deans of Faculties* Theol—A Brandrud, Science—H Goldschmidt, Law—F Stang, Letters—Wilh Schencke, Med—K E. Schreiner

ADMISSION AS AN UNDERGRADUATE The Collegium (Rector and Deans of Faculties) can admit a foreigner who has passed an examn corresponding to the "Artium" (the school final examn for Norse students), which entitles him to admission into the Univs of his own country, provided that he produces good references as to character.

EXEMPTION FROM UNIVERSITY PREPARATORY EXAMNS, in consideration of having passed corresponding examns in a foreign country, may be granted by the King on the recommendation of the Collegium.

RESIDENCE There is some provision for boarding students in the colleges. Cost of board and lodging, 200 to 250 kroner a month.

POLAND

[The Bureau is indebted to the courtesy of the Polish Legation for the following article.]

The rules relating to Polish Universities were laid down in the law of July 13, 1920. Students, whether Polish or foreign, are ordinarily admitted on a certificate of maturity received in any of the Government schools for general education or any other certificate considered by the Ministry of Education to be equivalent. The course for a degree covers 4 years, except for a medical degree, for which it is 16 terms (trimestres). The degrees are (1) in Univs—magister and doctor, (2) in Politechnical schools—engineer and doctor. Fees for the courses are nominal. In addition there are payments for the use of laboratories, libraries, etc. Below is a list of all the Univs of Poland.

UNIVERSITY OF CRACOW, founded in 1364, reorganized in 1400, and again in 1783. Sections: Theol, Philos, Law and Administration, Med (with Pharm subsection), Agric. Affiliated to the Univ is a School of Polit Sc. Univ Library founded in 1400. 4531 students.

UNIVERSITY OF LWOW, founded in 1661, reorganized in 1816. Sections: Theol, Law and Polit Sc, Philos., Med, with Pharm. subsection. 4773 students.

UNIVERSITY OF WARSAW, founded in 1816, reorganized in 1915.

Sections : Theol (Cath. and Prot), Law and Polit Sc , Philos , Med., with Pharm and Vet subsections 7518 students

UNIVERSITY OF VILNA, founded in 1576, renewed in 1919 Sections : Theol , Law and Social Sc , Classics, Maths and Natural Sc , Fine Arts, Med , with Pharm subsection 1729 students

UNIVERSITY OF POSEN Sections Theol (being organized at present), Law, Econ and Polit Sc , Philos , Med , with Pharm subsection, Agric and Forestry, Technical 3273 students

UNIVERSITY OF LUBLIN, founded by a Polish financier, C Jaroszynski, immediately after the war Sections Theol , Law, Econ , Philos 1120 students

Other institutions of University grade :

POLYTECHNIC COLLEGE IN LWOW, founded in 1877 Sections Communications (roads, waterways, etc), Architecture (construction, arts), Mechanics (machinery, electro-technics), Chemistry, Agric and Forestry, Military 2305 students .

POLYTECHNICAL COLLEGE IN WARSAW Sections Constructive engineering, Water engineering, Construction of machinery, Electro-technics, Chemistry, Architecture 4112 students

VETERINARY COLLEGE IN LWOW, founded 1881 307 students

CHIEF AGRICULTURAL COLLEGE IN WARSAW Sections Agric , Forestry, Gardening 761 students

MINING ACADEMY IN CRACOW 282 students

ACADEMY OF FINE ARTS IN CRACOW , PEDAGOGICAL INSTITUTE IN WARSAW 258 students

Two higher schools for ECONOMICS in Warsaw and Cracow

ROUMANIA

There are Universities at Jassy, Bucharest, Cluj, and Cernăuți. Among the subjects in which special facilities for advanced study and research are to be found in Roumania are Biology (Cluj), Romance Philology (Bucharest and Jassy), Byzantinology (Bucharest), Central European and Balkanic History (Bucharest—Institute of S European and Balkanic Studies) *Summer courses*, to which foreign students are admitted, are provided at Valeni de Munte near Ploesti (centre of the Petrol industry—one hour by rail from Bucharest) Most of the profs are able to converse in French and German, and the Roumanian language presents no great difficulties to English students acquainted with Latin

RUSSIA

A report was prepared in Oct 1922 on " Life in the Universities of Russia to-day," with special reference to the position of Professors

and other teachers, by Harold Gibson, Chief Administrator of International University Relief in Russia. Particulars regarding some of the Universities can be obtained from the Russian Academic Group (Hon President, Sir Paul Vinogradoff), 30 Bedford Sq, London, W C.1.

KINGDOM OF THE SERBS, CROATS, AND SLOVENES

UNIVERSITY OF BELGRADE *Rektor* B Gavrilović *Faculties* Arts and Sc—Dean, N Vulić, Law—C Mitrović, Technology—S Marković, Med—M Jovanović Batut, Agric—P Djordjević, Theol—S Dimitrijević Over 100 profs and 7000 undergraduates The Faculties of Med, Agr, and Theol are at present small.

UNIV OF ZAGREB (Agram), with over 100 profs and 3000 students. Faculties of Theol, of Law, of Philos, Sciences and Letters, and of Agronomy and Forest Economy

ZAGREB POLYTECHNIC, ZAGREB TRAINING COLLEGE for Teachers, ZAGREB SCHOOL OF VET MED

UNIV OF LJUBLJANA (Laibach), with 70 profs and 800 students

Faculty of Law in SUBOTICA, 10 profs and 100 students.

Faculty of Arts in SKOPLJE, 10 profs and 40 students.

SPAIN

Universities at Madrid, Barcelona, Granada, Murcia, Oviedo, Salamanca, Santiago, Seville, Valencia, Valladolid, Zaragoza Madrid has also Schools of Fine Art, of Agronomic, Civil, Mining, and Forest Engineering, Madrid and Barcelona have Schools of Industrial Engineering and of Architecture; Barcelona, a School of Agriculture (advanced), Cadiz, a Faculty of Medicine, Canarias, a Faculty of Law, and Madrid, Cordoba, Leon, Santiago, and Zaragoza, Veterinary Schools

The "Anglo-Spanish Society of Spanish-speaking Countries and the British Empire," 5 Cavendish Square, London, W.1, aims at promoting, among other objects, the foundation of Travelling Scholarships, interchange of teachers and students, facilities for British students in Spanish-speaking countries, etc. The Honorary Secretaries are prepared to answer inquiries by British students proposing to visit such countries.

MADRID: UNIVERSIDAD CENTRAL

Rector Exmo. Sr. Don José Rodríguez Carracido *Vice-Rector* Ilmo. Sr. Don Elias Tormo y Monzo, General Secretary Don Francisco de Castro y Pascual *Deans of Faculties*: Filosofía y Letras—

Ilmo Sr Don Adolfo Bonilla y San Martin, Ciencias—Ilmo. Sr Don Luis de Toledo y Zulueta, Derecho—Ilmo Sr Don Rafael de Urefia y Smenjaud, Medicina—Exmo Sr Don S Recasens y Girol; Farmacia—Exmo Sr Don José Casares Gil

The ordinary qualification for admission is the "Bachiller"-ship (marking the completion of a course of secondary education, similar to the French Baccalauréat) or its equivalent. The official course for the Doctorate covers one year.

In connexion with the *Instituto de Valencia de Don Juan* a student-ship (De Osma) is awarded annually to a member of the Univ of Oxford.

VACATION COURSES FOR FOREIGNERS in Madrid are organized by the Centro de Estudios Históricos (Almagro, 26), an institution created by the Junta para Ampliación de Estudios e Investigaciones Científicas. In 1924 (the 13th yr) the course will cover about 4 weeks in July and Aug, the lectures being devoted to Spanish Lang, Phonetics, and Lit, Spanish Art, History, Geog, Pedagogy, and Contemporary Politics. Special courses in contemporary lyrics and novel, Spanish music, commercial Spanish, and intonation. Registration for entire course, 125 pesetas, special courses, 30 pesetas each. Board and lodging in Hostel (the Residencia de Estudiantes, built by the Junta for students and equipped with bathrooms, library, playing-fields, etc) costs from 14 to 20 pesetas a day. A number of Spanish instructors and students live in the Hostel.

BARCELONA

Faculties Filosofía y Letras, 26 profs, Derecho, 22 profs.; Ciencias, 40 profs, Medicina, 50 profs, Farmacia, 16 profs. There are also an Instituto General y Técnico, with several affiliated Institutes in other towns, an Escuela de Ingenieros Industriales, an Escuela Superior de Arquitectura, an Escuela de Intendentes Mercantiles, etc.

SWEDEN

[The Bureau is indebted to the courtesy of the Swedish Legation and the Secretary of the Chancellor of the Universities of Sweden for the following article.]

The State Universities at Uppsala and Lund, a Medical high school (faculty)—Karolinska medicó kirurgiska institutet—at Stockholm, and the Stockholm and Göteborg "High Schools," founded on private donations, are all under the supervision of the *Chancellor of the Universities of Sweden* (C Swartz, formerly prime minister), whose official address is Universitetskanslersektionen at Stockholm. Secy: O Croneborg.

There are also at Stockholm High Schools of Technology, of Forestry, and of Pharmacy, a College for Commercial studies—Handelshögskolan—a Veterinary College, Colleges for Music (at the Kungl Musikkon-

servatorium), and for Fine Arts (at the Kungl Konsthogskolan), and a Central Institute for Gymnastics, at Ultuna and at Alnarp are Agric Colleges Each of these institutions is governed by a special Board of Directors

For ADMISSION to one of the State Univs a foreigner should apply to a special Board of the Univ—Consistorium Minus If he is not already matriculated in Sweden he must prove that he is a student at a foreign State Univ, or obtain a Royal dispensation, application for which should be addressed to the King (Till Konungen) at the Ministry of Education (Ecklesiastik departementet) at Stockholm For admission to the Karolinska institutet a foreigner should likewise apply to the same ministry permission is usually granted if an examn equivalent to the Swedish matriculation examn has been passed, but sometimes a student is required to undergo a supplementary examn for admission Application for matriculation at Stockholms-hogskola is made to a special committee (Rektorsnamnden) appointed by the Senate (Lärarrådet) A certificate from one of the profs to the effect that the student is sufficiently advanced in his studies to follow the courses with profit is required A foreigner who has passed an examn which entitles him to admission to a Univ of his own country will always obtain such a certif Good personal references must also be given At Goteborgs-hogskola students who have not passed the Swedish matricn examn may be matriculated on application to the Board—Styrelsen

EXAMINATIONS A foreigner wishing to pass an examn at any of these institutions should apply for Royal permission as described above Examns passed elsewhere are taken into consideration

FEES for matricn at Uppsala, 12 kr, Lund, 12 25 kr, Karolinska inst, 0 25, Stockholms-hogskola, 25 (science, 50), Goteborgs, 10 For examn ordinarily 15 kr for each complete examn, at Stockholms-hogskola, 25 Fees per term only at Stockholms-hogskola Science, 100 kr, Laws, 55, Letters, 63 Various fees for many courses and lectures, and subscriptions to students' Assocns

STUDY AND RESEARCH WITHOUT MATRICULATION OR EXAMINATION Public lectures are given at the Univs and High Schools and permission to follow courses is ordinarily obtainable A foreign student can ordinarily obtain permission for special study or scientific research at the Karolinska inst if the places are not all required for Swedish students

UPPSALA

The Univ, established in 1477 under a Papal Bull, has faculties of Theol, Law, Med, and Philos, the last comprising (1) Letters, including History and Languages, etc, and (2) Science—Maths and Natural Sc Number of students, 2543

Rector Magnificus Prof L Stavenow *Deans of Faculties* · Theol —A Runestam, Laws—O Uden, Med —T Thorling, Philos —R. Ekblom (Letters), H Svedchus (Science).

LUND

Founded 1666, opened 1668. *Rector Magnificus* Prof J C. W Thyrén *Deans of Faculties* Theol—E Rodhe, Laws—C Bjorling, Med—E Sjovall, Philos—H Nelson (Letters), W Ekman (Science) Number of students, 1430 University Library 350,000 vols, 175,000 pamphlets (dissertations)

STOCKHOLM

KAROLINSKA MEDIKO-KIRURGISKA INSTITUTET A High School of the Swedish State, founded 1810 *Rector* Prof HJ Forssner Inspector of Dental School (Tandlakarinstitutet, founded 1898) Prof J Åkerman 894 students

GOTEBORG

GÖTEBORGS-HOGSKOLA began its work in 1891 It has a complete faculty of Letters *Rector* Prof O Sylwan 258 students Special Institutions for Fine Arts, Geography, Oceanography, and Psychology and Education

SWITZERLAND

[For the following article the Bureau is indebted to the courtesy of the Swiss Legation and the Office Central, Universitaire Suisse, rue de l'Hôpital 30, Berne For further information application may be made to the Office Central]

In the Cantons of the Swiss Confederation, as in the United States of America, Higher Education is legislated for by the constituent states (in the Swiss Confederation, the Cantons) severally, and the only Institution of University grade controlled by the Confederation is the "École polytechnique fédérale" at Zurich At ST GALLEN is a *Handels-Hochschule*, founded in 1899, which receives grants both from the Confederation and from the Canton It has 18 professors and 11 lecturers, and offers four-semester courses, including Economics, Commerce, Law, Finance, Technology, etc

THE CANTONAL UNIVERSITIES

Although the Cantons are free to organize their Univs as they please, untrammelled by federal laws, there exists among them an understanding on the most important points so that it is possible to generalize to some extent in describing them It should nevertheless be borne in mind that such generalizations imply "no uniform prescription but merely coincidence of particular dispositions" For exact information it is necessary to refer to the regulations of the particular Univ in question.

The following list gives (a) the number of professors, (b) the number of regular students, (c) the language of instruction of each of the Univs

BÂLE	(a) 140 , (b) 1000 , (c) German
BERNE	(a) 170 , (b) 1600 , (c) German
FRIBOURG	(a) 70 , (b) 500 , (c) French and German.
GENEVA	(a) 170 , (b) 800 , (c) French
LAUSANNE	(a) 110 , (b) 800 , (c) French
NEUCHÂTEL	(a) 60 , (b) 200 , (c) French.
ZURICH	(a) 100 , (b) 1500 , (c) German

FACULTIES Theology, Law and Political Sciences, Medicine, Letters (philos, languages, history), Sciences (Maths and Nat Sc.) Berne and Zurich have also a faculty of Vet. Med , Lausanne an Engineering School Fribourg and Neuchâtel have no Med faculty.

COURSES are organized by *semesters* The winter semester is from the middle of Oct to the middle of March, the summer from the middle of April to the end of July Immatriculation may be at the beginning of either semester and students choose freely the courses they wish to follow, the study plans published by the several faculties being merely intended for the guidance of those who wish to adopt a normal curriculum

DEGREES obtainable are the *Licence* and the Doctorate The former is not ordinarily conferred in the German-speaking Univs Almost all the faculties confer the Doctorate and there are numerous special examns which may be taken with a view to it, each carrying its special Diploma Candidates must prove that they have studied in a Univ during a certain number of semesters, ordinarily 6, of which at least 2 have been passed in the Univ which is asked to confer the degree Graduation fees are from 300 to 400 fr, and, in addition, candidates are required to supply within a certain time after the examn printed copies (generally 200) of their dissertation

IMMATICULATION Regular students (minimum age, 18) must present (a) A certificat de maturité of a recognized Swiss gymnasium or a similar foreign certificate entitling to admission to a foreign Univ (Entrance examns are arranged for students whose certificates are insufficient), (b) certificate of character, (c) passport (or equivalent document) The admission fee varies from 10 to 62 fr and there are sundry other initial charges, *e g* at Berne library 5 fr, Sick Fund 10 fr, General Fund 2 fr

Certain courses are open to unmatriculated persons as "auditors," and admission to others may be obtained from the professors concerned, who in some cases require evidence of suitable preparation The fee for inscription as "auditor" is nominal (*e g* 1 fr), but the student is required to pay instruction fees

INSTRUCTION FEES The system generally adopted is to levy a tax for the semester according to the number of hours per week assigned to the courses taken The rate per hour is ordinarily 5 fr, at Geneva and Zurich 6 fr A student who, *e g* at Bâle, takes an inscription for

20 hours a week would pay 100 fr. At Fribourg each student pays a fixed sum, whatever the number of hours of his courses—winter 60 fr., summer 50 fr

Special taxes (from about 10 to 50 fr) are levied for the use of laboratories, clinics, etc. Sundry subscriptions, as for Sick Fund, General Fund, Library, etc., amount to from 5 to 25 fr

SPECIAL INSTITUTIONS AND FACILITIES *Sick Fund* Students are required to insure against sickness expenses (hospital, or doctor and chemist) *Reading Rooms* are organized and administered, for the most part, by the students *Museums, Libraries*, and other collections in each University town are open to students *Theatres* generally admit students at reduced rates *Scholarships* are comparatively unimportant and are not open to foreigners, but *Prizes* open alike to Swiss and foreign students are offered in most faculties. The first prizes range from 500 to 1000 fr

LODGING Information obtainable from the Secretariat of the Univ., at Bâle and Zurich from the Comités d'Étudiants

STUDENT ORGANIZATIONS The Comités at Bâle and Zurich manage the reading-rooms, procure lodgings, purchase books, organize conferences, cheap meals and clubs, encourage sports and answer general inquiries. The general body of students constitute the "Fédération Suisse des Étudiants". In each Univ. exist numerous student societies, characterized by the political opinions, social connexions, or religion of their members. Notable among them are those devoted to sport

BÂLE *Rektor* R. Stahelin *Deans* Theol.—E. Vischer, Law—F. Beyerle, Med.—G. Hotz, Philos.—P. Von der Muhl (Philol. Hist.), and F. Zschokke (Maths.-Nat. Sc.) Summer holiday courses for foreigners

BERNE *Rektor* W. Burckhardt *Deans* Evang.-theol.—M. Lauterburg, Kath.-theol.—A. Gilg, Law—Th. Guhl, Med.—F. de Quervain, Vet.-Med.—J. U. Duerst, Philos.—G. de Reynold and P. Arbenz

FRIBOURG *Recteur* G. J. Liesker *Deans* Theol. Cath.—F. Claverie, Law—A. v. Overbeck, Lettres—Max, Herzog zu Sachsen, Sciences—A. Gockel. Summer holiday courses for foreigners

GENÈVE. *Recteur* R. Weber *Doyens des Facultés* Sciences—L. W. Collet, Let.—V. Martin, Sc. Econ. et Soc.—W. Rosier, Droit—G. Werner, Theol.—E. Rochat, Méd.—H. Cristiani, Secrétaire de l'Université: A. Roussy. Séminaire de français moderne, Inst. des Hautes Études Commerciales, Inst. Dentaire

Holiday courses for foreigners, July 15 to September 15, arranged in self-contained units of various duration. Full information obtainable from Comité de Patronage at the Univ. Booklet, *Geneva, an Educational Centre*, issued by the Assocn. of the Interests of Geneva, 3 place des Bergues, also an excellent *Guide de l'Étudiant à Genève*, by A. Roussy, 1921-22. Board and Lodging in *pensions*, 175 to 300 fr. a month

Of special interest to foreigners are the Linnæan Gardens and Laboratory of Alpine Biology at Bourg-St-Pierre (Valais), open July 15 to Sept 15, regarding which details may be obtained from Prof R Chodat at the Univ, courses in Pedagogy at the Institut J J Rousseau At Geneva there are also exceptional facilities for research in Greek Papyrology and Greco-Roman Institutions, the Calvinistic Reformation (special library of the Soc du Musée hist de la Réforme), Industrial Economics There are numerous Medical and Dental Laboratories, Clinics and Institutes Many valuable prizes are open to foreign as well as to Swiss students, in Literature, History, Science and Medicine

LAUSANNE *Recteur* E Cordey *Deans* Theol Prot—A Fbrnerod; Law—A Rougier, Med—M Arthus, Letters—G Bonnard, Sciences—M Paschoud Attached to the Faculty of Law are Schools of Social Sciences—*Director* M Milloud, and Commerce—*Director* L Morf, to the Faculty of Sciences a School of Pharmacy—*Director* E Wilczek The Engineering School has about 25 profs—*Director* I Landry

Holiday courses for foreigners (July 19 to Aug 29, 1923), arranged in three periods of a fortnight each Courses of lectures on recent and contemporary French literature Practical and Phonetic classes Excursions in the mountains every Saturday Booklet containing full information sent on application to Secrétariat de l'Université, Lausanne

NEUCHÂTEL *Recteur* P Humbert *Deans* Letters—G Jequier, Science—H Rivier, Law—E Béguelin, Theol Prot—H Du Bois *Director of French Classes for Foreigners* (Séminaire de français) A Dubied *Director of Commercial Classes* P F Bonjour

Holiday courses for foreigners, July 16 to Aug 11, and Aug 13 to Sept 8 Full information obtainable from Secrétariat de l'Université, Neuchâtel

ZURICH *Rector* E Hafer *Deans* Theol—J Hausheer, Law—P Mutzner, Med—W R Hess, Vet Sc—O Zietzschmann, Philos—A Wreschner, Sciences—A Ernst

L'ÉCOLE POLYTECHNIQUE FÉDÉRALE, ZURICH

Recteur Prof A Rohn Names of Deans and numbers of students in the several divisions Architecture—Potterat, 82, Civil Engineering—Baeschlin, 249, Mechanical and Elec Engineering—Stodola, 649, Industrial Chemistry—Baur, 215, Pharmacy—Eder, 68, Forestry—Badoux, 70, Agriculture—Duggeli, 141, Rural Engineering and Surveying—Diserens, 27, Normal school—Weyl and Staudinger, 44 Total number of professors, 117, students, 1553, including 222 foreigners, of whom 30 were Norwegian

Instruction is given both in German and in French

The courses are organized by the academic year, and admission as a regular student is ordinarily possible only at the commencement of

the year (Oct) The winter semester is from the middle of Oct to the middle of March, the summer from the middle of April to the end of July The programme of studies is obligatory for all regular students, and only those who pass the exams held at the end of each semester may follow the higher degree courses The various Schools hold preparatory and final diploma exams, and the Doctorate is as a rule conferred only on those who, having already received diplomas, present a thesis and undergo an oral exam

Immatriculation conditions are stricter than in the Univs British and most other foreign students are required to undergo an Entrance examination, except for attendance as "auditeurs" at the cours libre in philosophy, political science, mathematics, and natural and technical sciences Inscription should take place on or before Sept 10, fee 10 fr A limited number of "Auditeurs" are admitted

Instruction fees for foreigners, 600 fr p a Other general fees come to about 25 fr p a

Special Institutions and facilities—as in the Univs, students are organized in an Assocn des Étudiants (E P F)

Of special interest to British and other foreign students are the courses in *Hydro-Electrical Engineering* (Wyssling and Prasil) and *Chemical Engineering* (Bosshard and Fierz Full course in dyestuffs, intermediaries, explosives, carbohydrates Winter term—fats, oils, rubber, petroleum, textile chemistry Laboratories for experimental work daily) Facilities for research in Forestry are also available

UNITED STATES OF AMERICA

In the 670 Universities, Colleges, and Professional Schools which submitted returns for 1919-20 to the United States Bureau of Education there were enrolled in that year 521,754 students, of whom rather more than one-third were women Of these institutions 109 were under public and 561 under private control, 82 were independent professional schools Of 586 Univs and Colleges with undergraduate students 354 were co-educational, and reported 162,558 men and 96,908 women, 117 were maintained exclusively for men and 115 exclusively for women Of the total number of students 59,309 were in pre-matriculation departments and 15,612 were in graduate schools Law students numbered 20,992, medical 14,242, dental 8809, theological 7216, pharmacy 5026, engineering 51,908 For full information about American Universities students in this country are advised to apply to the American University Union in Europe, British Division, 50 Russell Sq, on the continent of Europe to the headquarters of the Union, 1 rue de Fleurus, Paris In Rome there is an American Academy at Porta San Pancrazio 29 In Belgium the Fondation Universitaire, which administers numerous scholarships tenable in American institutions of higher learning, has its office at 74 rue de Namur, Bruxelles In America reference may be made to the Secretary to the Board of Trustees of the American University Union, Prof J W Cunliffe, Columbia Univ,

New York City, or to the Institute of International Education, 522 Fifth Avenue, New York. A recent Australian view of American Univ life and organization is given in *The American University* by E R Holme of the Univ. of Sydney (Angus and Robertson, Ltd, Sydney, 1920, 7s 6d). A description of American Univs from the point of view of a French scientist is given in *Universities and Scientific Life in the U S A*, by Prof M Caullery (Oxford Univ. Press, 1922, 10s 6d). The Bureau of Education of the United States Department of the Interior published in 1921 a Bulletin (No 39 of 1920) on "Facilities for Foreign Students in American Colleges and Universities". This is obtainable from the Government Printing Office, Washington, D C, at 15 cents a copy. The Inst of International Educn has published a *Guidebook for Foreign Students in the U S A* (1924), obtainable in this country from the American Univ Union. An "International House" is being built in New York (Morningside Drive and 124th Street) as a residence club for 500 foreign students. The requisite funds were provided by J D Rockefeller, Junior, who also founded the "International Education Board" (chartered Jan 16, 1923). This Board has established the International Institute of Teachers College (v *infra*, Columbia Univ).

American Professors on leave of absence sometimes receive grants for expenses of foreign travel from the Institute of International Education, and report to the Institute on their observations while teaching in foreign Institutions. Columbia, Pennsylvania, Johns Hopkins, Cornell, Harvard, Mass Inst Tech, and Yale co-operate in arranging exchanges with France of Professors of Applied Science.

For information as to American University and College Scholarships for British and other foreign students, and research in the U S A see Appendix XXIV (xxii), (xxxi), and (xxxiii).

The British Information Library, 44 Whitehall Street, New York, established Dec 1919, for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. It is in close touch with the Dominion Trade Commissioners in New York, and can give information on Dominion affairs. Wherever possible official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc, are received regularly directly from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is entirely free to the public, and information is gladly given to all enquirers.

AMERICAN DEGREES (non-professional). The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction. The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A B (or B S)

degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M A (or M S) proceeds to the Graduate School of a University (the professional schools of law, medicine, etc., with few exceptions, admit undergraduates), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph D. requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U S A is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities. The Report recommends the admission to candidacy for the State Doctorate of any student holding the M A or M S degree of an institution belonging to the Assocn of American Univs who has specialized in the branch of learning chosen for the work for the doctorate, and proved to the satisfaction of the head of his department and of the Dean of the Graduate School of his Univ his capacity for research, also candidates for the Ph D in one of those institutions who have completed 2 or more years of study for the Ph D, and proved their capacity for research, also holders of a Ph D from one of those institutions. The institutions in question are starred (*) in the list given below. In other cases it is suggested that reference should be made to the Committee, 24-26 Jackson Place, Washington.

Below is given a list of 166 institutions approved by the Association of American Univs. This list has been adopted by most of the Univs of the U K for the purpose of admission of graduates with a view to qualifying for the Ph D degree (v p 14). They may be classified as

I 33 Univs of complex organization, usually with *graduate schools* and certain professional and technological schools. These are the 25 members of the Assocn, and Boston, New York, and Western Reserve and the Univs of Cincinnati, Colorado, Pittsburgh, Texas, and Washington.

II 15 *Technological Institutions* Brooklyn Polytechnic Inst, California Inst Tech (v Supplementary list), Case School of Applied Science,

Clarkson School of Tech , Iowa State College, Lehigh Univ , Mass Agr College, Mass Inst Tech , Pennsylvania State College, Purdue Univ , Rensselaer Polyt Inst , Rose Polyt Inst , State College of Washington, Stevens Inst Tech , Worcester Polyt Inst

III The remaining 118 *Colleges* primarily organized with undergraduate curricula leading to the A B or B S , in some cases with strong technological divisions, and occasionally a strong professional school

Allegheny College, Meadville, Pa ; †Amherst College, Amherst, Mass , †Barnard College, New York, N Y , Bates College, Lewiston, Me , Beloit College, Beloit, Wis ; Boston University, Boston, Mass , †Bowdoin College, Brunswick, Me , †Brooklyn Polytechnic Institute, Brooklyn, N Y , Brown University, Providence, R I , Bryn Mawr College, Bryn Mawr, Pa , Carleton College, Northfield, Minn , †Case School of Applied Science, Cleveland, Ohio ; *Catholic University of America, Washington, D C , †Central University of Kentucky, Danville, Ky , Clark College, Worcester, Mass , †Clarkson School of Technology, Potsdam, N Y , *Clark University, Worcester, Mass , Coe College, Cedar Rapids, Iowa, Colby College, Waterville, Me , †Colgate University, Hamilton, N Y , ††College of the City of New York, New York, N Y , †College of St Catherine, St Paul, Minn , § †College of St Elizabeth, Convent Station, N J , Colorado College, Colorado Springs, Colo , *Columbia University, New York, N Y ; Cornell College, Mt Vernon, Iowa , *Cornell University, Ithaca, N Y , Dartmouth College, Hanover, N H ; De Pauw University, Greencastle, Ind , Dickinson College, Carlisle, Pa , Drake University, Des Moines, Iowa , Drury College, Springfield, Mo , Earlham College, Richmond, Ind , §Elmira College, Elmira, N Y , †Fordham University, Fordham, N Y , Franklin College, Franklin, Ind , Goucher College, Baltimore, Md , Grinnell College, Grinnell, Iowa , †Hamilton College, Clinton, N Y , *Harvard University, Cambridge, Mass , †Haverford College, Haverford, Pa , Hobart College, Geneva, N Y , *Indiana University, Bloomington, Ind , Iowa State College, Ames, Iowa , *Johns Hopkins University, Baltimore, Md , †Kenyon College, Gambier, Ohio , Knox College, Galesburg, Ill , †Lafayette College, Easton, Pa , § †Lake Erie College, Painesville, Ohio , Lake Forest College, Lake Forest, Ill , Lawrence College, Appleton, Wis ; Lehigh University, South Bethlehem, Pa , *Leland Stanford Jr University, Stanford University, Cal ; †Macalester College, St Paul, Minn , Marietta College, Marietta, Ohio , †Massachusetts Agricultural College, Amherst, Mass , Massachusetts Institute of Technology, Boston, Mass , Miami University, Oxford, Ohio , Middlebury College, Middlebury, Vt , § †Mills College, Oakland, Cal , § †Milwaukee-Downer College, Milwaukee, Wis , Mount Holyoke College, South Hadley, Mass , †Municipal University of Akron, Akron, Ohio , New York University, New York City , *Northwestern University, Evanston, Ill , Oberlin College, Oberlin, Ohio , Ohio State

* Institutions starred are members of the Association of American Universities

† Added at the meeting of the Association in November of 1917.

‡ For men only

§ For women only.

University, Columbus, Ohio, Ohio Wesleyan University, Delaware, Ohio, Pennsylvania State College, State College, Pa; Pomona College, Claremont, Cal, *Princeton University, Princeton, N J; Purdue University, Lafayette, Ind; Radcliffe College, Cambridge, Mass, §†Randolph-Macon Women's College, Lynchburg, Va, Reed College, Portland, Oregon, †Rensselaer Polytechnic Institute, Troy, N Y, Ripon College, Ripon, Wis, §†Rockford College, Rockford, Ill, †Rose Polytechnic Institute, Terre Haute, Ind, †Rutgers College, New Brunswick, N J, Smith College, Northampton, Mass, State College of Washington, Pullman, Wash, *State University of Iowa, Iowa City, Iowa, †Stevens Institute of Technology, Hoboken, N J, Swarthmore College, Swarthmore, Pa, Syracuse University, Syracuse, N Y, Trinity College, Durham, N C, †Trinity College, Hartford, Conn, †Trinity College, Washington, D C, Tufts College, Medford, Mass, Tulane University, New Orleans, La, †Union University, Schenectady, N Y, †University of Alabama, University, Ala; *University of California, Berkeley, Cal, *University of Chicago, Chicago, Ill, University of Cincinnati, Cincinnati, Ohio, University of Colorado, Boulder, Colo, †University of Georgia, Athens, Ga, *University of Illinois, Urbana, Ill, *University of Kansas, Lawrence, Kan, University of Maine, Orono, Me, *University of Michigan, Ann Arbor, Mich, *University of Minnesota, Minneapolis, Minn; *University of Missouri, Columbia, Mo, *University of Nebraska, Lincoln, Neb, *University of North Carolina, Chapel Hill, N C, University of North Dakota, University, N D, †University of Oklahoma, Norman, Okla, University of Oregon, Eugene, Ore; *University of Pennsylvania, Philadelphia, Pa, University of Pittsburg, Pittsburg, Pa, University of Rochester, Rochester, N Y, University of South Dakota, Vermillion, S D, †University of the South, Sewanee, Tenn, University of Tennessee, Knoxville, Tenn, University of Texas, Austin, Texas, University of Vermont, Burlington, Vt, †*University of Virginia, Charlottesville, Va, University of Washington, Seattle, Wash, †University of West Virginia, Morgantown, W Va, *University of Wisconsin, Madison, Wis, University of Wooster, Ohio, Vanderbilt University, Nashville, Tenn, §Vassar College, Poughkeepsie, N Y, †Wabash College, Crawfordsville, Ind, †Washburn College, Topeka, Kan, †Washington and Jefferson College, Washington, Pa, ††Washington and Lee University, Lexington, Va, Washington University, St Louis, Mo, §Wellesley College, Wellesley, Mass, §Wells College, Aurora, N Y, †Wesleyan University, Middletown, Conn, Western Reserve University, Cleveland, Ohio, †Whitman College, Walla Walla, Wash, †William Jewell College, Liberty, Mo, †Williams College, Williamstown, Mass, †Worcester Polytechnic Institute, Worcester, Mass, *Yale University, New Haven, Conn

Supplementary list of institutions admitted since Nov 1917 Agnes

* Institutions starred are members of the Association of American Universities

† Added at the meeting of the Association in November of 1917

‡ For men only

§ For women only

Scott College, Decatur, Ga , Alfred University, Alfred, N Y , California Institute of Technology, Pasadena, Cal , Carthage College, Carthage, Ill ; College of St Teresa, Winona, Minn , Davidson College, Davidson, N C , Denison University, Granville, Ohio , Hamline University, St Paul, Minn. , Hunter College, New York, N Y ; Illinois College, Jacksonville, Ill ; Illinois Woman's College, Jacksonville, Ill , Morningside College, Sioux City, Iowa , New York State Teachers' College , North-Western College, Naperville, Ill , Occidental College, Los Angeles, Cal , Park College, Parkville, Mo , Sweet Briar College, Sweet Briar, Va , University of Arkansas, Fayetteville, Ark , University of Florida, Gainesville, Florida , University of Idaho, Moscow, Idaho , University of Kentucky, Lexington, Ky , University of Nevada, Reno, Nev , University of Southern California, Los Angeles, Cal , University of Utah, Salt Lake City, Utah , Western College for Women, Oxford, Idaho , Westminster College, New Wilmington, Penn , Wheaton College, Norton, Mass , William and Mary College, Williamsburg, Va

The following particulars of the 25 institutions belonging to the Assocn of American Univs have been kindly supplied by the American University Union in Europe, British Division. All are co-educational, except C U A, Clark, Harvard, Princeton, Virginia, and Yale, and even these, except C U A and Princeton, admit women for graduate work. Where not otherwise stated the Fees charged at Halls of Residence or dormitories are for rooms (with heating and light) without board. Fees payable on matriculation and on graduation have not been specified. They range between \$5 and \$30. Fuller information, including particulars of equipment and research funds, library facilities, and facilities for publication of research results, is given in *Opportunities for Study at American Graduate Schools*, Bulletin, 1921, No 6, of the United States Bureau of Education.

CALIFORNIA, UNIVERSITY OF (founded 1868), Berkeley, Cal (State Univ) *President* W C Campbell, Sc D, LL D *Deans* Graduate Division—C W Lipman, Ph D , Undergraduate Division—T M Putnam, College of Letters and Science—Monroe E. Deutsch, Agric—H. J. Webber, Mechanics—C L Cory, M E, E D , Mining—F H Probert, Civil Engineering—C Derleth, C E , Chemistry—G N Lewis, A M, Ph D , Commerce—S Daggett, A M, Ph D , Education—W W Kemp, Ph D , Jurisprudence—O K McMurray. Directors of School of Archit—J G Howard, Division of Vocational Education—E A Lee

Library. 400,000 vols *Fees*: Tuition, \$150 p a., Incidental, \$50 p a *Living Expenses in Berkeley* Board and lodging, \$35 to \$55 p m *Teaching Staff* 1127. *Students* 12,370

CATHOLIC UNIVERSITY OF AMERICA (founded 1889), Washington, D C. *Rector* Rt Rev T J Shahan, S T D, J U L, LL D. *Deans of Faculties* Sacred Sciences—Very Rev C. F Aiken, S T D., Law—P. J McLoughlin, A B, LL M, J D., Philosophy—F O'Hara, Ph D.; Letters—P J Lennox, Litt D., Sciences—A. E Landry, Ph D , President of Divinity Coll—Very Rev. J F Fenlon, S S, S T D

Library. 136,000 vols. *Fees* for tuition \$325 p a *Halls of Residence* Board and room, \$48 p m *Teaching Staff*. 102. *Students*: 1835

CHICAGO, UNIV OF (1891), Chicago, Ill *Acting President*. E D Burton, D D *Deans* Graduate School of Arts and Lit—G Y. Laing, Ph D, Ogden Graduate School of Science—H G Gale, Ph D, Colleges of Arts, Lit, and Science—D A Robertson, University College—E T Filbey, Divinity School—S Mathews, Law School—J P Hall, Medical Students—J M Dodson, School of Commerce and Admn and Graduate School of Social Service Admn—L C Marshall, College of Educn—W S Gray, School of Educn (Director)—C H Judd.

Libraries 700,000 vols, 200,000 pamphlets *Fees* Tuition, \$60 a quarter *Halls of Residence* \$30 to \$144 a quarter. Board not less than \$7 a week *Teaching Staff* 377. *Students*: 11,365.

CLARK (founded 1889), Worcester, Mass *President* Wallace W. Atwood *Dean of the Collegiate Dept*. H P Little

Libraries 100,000 vols, 500 journals *Fees* for tuition \$100 p a *Halls of Residence* for a few male graduate students only Furnished rooms near from \$3 per week Board from \$7 *Teaching Staff* 60. *Students* 532.

COLUMBIA (founded 1754), New York City *President* Nicholas Murray Butler, Ph D, LL D, D Litt *Deans of Faculties* Pol. Sc, Philos, and Pure Sc—F J E Woodbridge, A M, LL D, Applied Sc—G B Pegram, Ph D, Law—H F Stone, A M, LL B, LL D, Medicine—W Darrach, M D, Columbia College—H E Hawkes, Ph D, Barnard Coll—Virginia C Gildersleeve, Ph D, Teachers' Coll—J E Russell, Ph D. LL D. Coll of Pharmacy—H H Rusby, M D

Libraries 835,000 vols *Fees* Tuition, \$248 p a *Halls of Residence* \$135 to \$400 p a *Teaching Staff* 1506 *Students*. 25,734.

The "International Institute," established in 1923 with the aid of an annual contribution of \$100,000 for ten years from the International Education Board (founded by John D Rockefeller, 1923), is an integral part of Teachers' College which had in that year some 250 foreign students and over 100 Americans who held posts as teachers in other countries The Institute's work comprises. (a) Presentation of general view of American educational system and its adaptation to foreign situations and problems, (b) visitation of American Schools for study of conditions and procedure, (c) investigation of educational conditions in foreign countries, (d) instruction in American ideals and institutions as a basis for understanding American education

CORNELL (founded 1868), Ithaca, N Y. *President*. Livingston Farrand, M D, LL D *Deans of Colleges* Medical—W L Niles, M D., Agric—A R. Mann, A M., Archit.—F. H Bosworth, Engin—D. S. Kimball, M E, Graduate School—J E Creighton, Ph D, LL.D., Faculty of Law—G G. Bogert

Libraries 680,000 vols and pamphlets Over 2000 current periodicals received *Fees* for tuition Coll of Arts and Sc, \$250 p a, Graduate School, \$75 p a *Teaching Staff* 700 *Students* 5700

HARVARD (founded 1638), Cambridge, Mass *President* Abbott Lawrence Lowell, LL D *Deans* Faculty of Arts and Sc.—Le Baron R Briggs, LL D, Litt D, Graduate Sch of Arts and Sc—C H Haskins, Ph D, Litt D, Harvard College—C N Greenough, Ph D, Special Students (in charge of Univ Extension)—A F Whitttem, Ph D, Engineering Sch—H J Hughes, Faculty of Archit—J H Edgell, Ph D, Graduate Sch of Business Admn—W B Donham, LL B, Bussey Institn—W M Wheeler, Ph D, Theological School—W L Sherry, D D, Faculty of Law—Roscoe Pound, Ph D, LL D, Graduate Sch of Educn—H W Holmes, Medical Sch—D L Edsall, M D, Dental Sch—E Hanes Smith, D M D

Libraries College, 1,375,000 vols and pamphlets, Departmental, 2,300,000 *Fees* Tuition, \$250 p a *Halls of Residence* \$50 to \$200 p a Board, \$240 to \$350 p a *Teaching Staff* 891 *Students* 7445

ILLINOIS, UNIVERSITY OF (founded 1868), Urbana, Ill (State Univ) *President* David Kinley, Ph D, LL D *Deans of Colleges* Liberal Art and Sc—K C Babcock, B Lit, Ph D, LL D, Commerce and Business Admn—C M Thompson, Ph D, LL D, Engineering—M S Ketchum, C E, Agric—H W Mumford, BS, Law—A J Hasno, BS, LL B, Graduate School—A H Daniels, Ph D, Education—C E Chadsey, Ph D, Medicine—A C Eycleshymer, Ph D, M D, Dentistry—F B Moorehead, D D S, M D, School of Pharmacy—W B Day, Ph G, Sch of Music (Director)—F B Stiven, B Mus, A A G O, Library School (Dir)—P L Windsor, Ph B

Library 488,862 vols, 53,236 pamphlets *Fees* for tuition \$75 p a *Halls of Residence* \$108 to \$180 p a (single rooms), \$81 to \$150 (double) Board, \$260 to \$360 p a *Teaching Staff* 1161 *Students* 10,869

INDIANA (founded 1820), Bloomington, Ind (State Univ) *President* Wm Lowe Bryan, Ph D, LL D *Deans of Schools* Graduate School—C H Eigenmann, Ph D, Medicine—C P Emerson, M D, Education—H Lester Smith, Ph D, Law—C McG Hepburn, A M, LL B, LL D, Commerce and Finance—W A Rawles, Ph D, Music—B W Mernll, College of Arts and Sc—S E Stout, Ph D, and D A Rothrock, Ph D

Library 151,778 vols *Fees* \$42 50 a semester *Living Expenses* in Bloomington, per week Room, \$3 to \$6, Board, \$5 to \$7 *Teaching Staff* 226 *Students* 3914

IOWA, STATE UNIV. OF (founded 1855), Iowa City *President* W. A. Jessup, Ph D *Deans of Colleges* Liberal Arts—G F Kay, Ph D; Law—H C Jones, S J D., Medicine—L W Dean, M S, M D, F A C S, Dentistry—F T Breene, D D S, M D, Pharmacy—W J Teeters, M S, Ph C, Graduate College—C E Seashore, Ph D, Applied Sc—W G Raymond, C E, LL D, Eng D, Education—P C Packer, Ph D, Commerce—C A Phillips, Ph D

FOREIGN UNIVERSITIES

673

Library 189,000 vols *Fees* for tuition, \$80 p a *Halls of Residence* \$72 to \$78 75 (single rooms), \$49 50 to \$62 50 (double). Board, \$6 per week *Teaching Staff* 500 *Students* 5341

JOHNS HOPKINS (founded 1876), Baltimore, Maryland. *President*: Frank Johnson Goodnow, LL D *Deans of Faculties*. Medical—J W Wilhams, M D, LL D, Engin—J B Whitehead, Ph D; College—J H Latane, Ph D, LL D

Libraries 249,500 vols *Fees* for tuition Undergraduate, \$250 p a, Graduate, \$150 p a *Teaching Staff* 370 *Students* 3864

KANSAS, UNIV OF (1866), Lawrence, Kansas (State Univ) *Chancellor* E H Lindley, Ph D *Deans of Schools* Graduate School (acting)—E B Stouffer, Ph D, Engineering—P F Walker, M M E, Law—H W Arant, LL B, Fine Arts—H L Butler, A B, Pharmacy—L E Sayre, Ph M, Medicine—M T Sudler, Ph D, Education—R A Kent, Ph D, College of Liberal Arts and Sc—J G Brandt, Ph D

Library 150,000 vols, 45,000 pamphlets, 1405 periodicals *Fees* Incidental, \$30 p a *Living Expenses* in Lawrence (average) room, \$10 p m Board, \$8 per week *Teaching Staff* 262 *Students* 3993

MICHIGAN, UNIV OF (1837), Ann Arbor, Mich (State Univ). *President* Marion Leroy Burton, Ph D, LL D *Deans* Coll of Lit, Sc, and Arts—J R Effinger, Ph D, Colls of Engin and Archit—M E Cooley, LL D, Medical Sch—H Cabot, M D, Law Sch—H M Bates, Ph B, Coll of Pharmacy (acting)—E H Kraus, Ph D, Sc D, Coll of Dental Surgery—M L Ward, D D Sc, Sch of Educn (acting)—A S Whitney, LL D, Graduate Sch—A H Lloyd, Ph D

Libraries 500,000 vols, 2800 periodicals *Fees* for tuition men, \$110, women, \$105 p a *Teaching Staff* 633 *Students* 10,068

MINNESOTA, UNIV OF (1868), Minneapolis, Minn (State Univ). *President* L D Coffman, Ph D *Deans* College of Sc, Lit., and Arts—J B Johnson, Ph D, Coll of Engin and Archit and Sch of Chem—O M Leland, B S, C E, Dept of Agric—W C Coffey, M S, Coll of Agric, Forestry, and Home Econ—E M Freeman, Ph D, Law Sch—E Fraser, LL B, Medical Sch—E P Lyon, Ph D, M D, Coll of Dentistry—A Owre, M D, C M, D M D, Sch of Mines—W R. Appleby, M A, Coll of Pharmacy—F J Wulling, Phm D., LL M, Coll of Educn—M E Haggerty, Ph D, Graduate Sch—G S Ford, Ph D, Sch of Business—G. W. Downie, Ph D

Library 370,000 vols *Fees* per quarter for tuition Coll of Sc, Lit, and Arts, \$30, Graduate Sch, \$10 *Living Expenses* in Minneapolis. Rooms, \$9 to \$15 p m (double), \$12 to \$18 (single) Board, \$5 to \$8 per week *Teaching Staff* 175 *Students* 8200.

MISSOURI, UNIV OF (1839), Columbia, Mo (State Univ) *President* John C Jones, LL D *Deans of Faculties*. Education—J H Coursault, Ph D., Business and Public Admn—I Loeb, M S, LL B, Ph D, Law—J. P McBaane, LL B., Engineering—E. J. McCaustland, C E., M C E., Graduate Faculty—W. Miller, LL D., Agric—F B Mum-

ford, B S , M S , Medicine—G L Noyes, M D , Journalism—W. Williams, LL D , Director of Sch of Mines and Metallurgy—C. H Fulton, E M , D Sc

Library 200,000 vols , 21,000 pamphlets, 2000 periodicals *Fees* for tuition, \$10 per term Graduate work only in Graduate school free *Incidental Fee*, \$25 per term *Living Expenses* in Columbia Board, \$5 to \$8 per week Room, \$14 to \$50 per term (16 weeks) *Teaching Staff* 289, *Students* 6154

NEBRASKA, UNIV OF (1869), Lincoln, Neb (State Univ) *Chancellor* S Avery, Ph D , LL D , *Deans of Colleges* The Graduate Coll—L A Sherman, Ph D , LL D , Agric—E A Burnett, D Sc , Medicine—I S Cutter, M D , Pharmacy—R A Lyman, A M , M D , Engin—O J Ferguson, M E E , Arts and Sc—P M Buck, A M , Business Admn—J E Le Rossignol, Ph D , Dentistry (acting)—G A Trubb, D D S , Law—W A Seavey, LL B , Director of Sch of Fine Arts—P H Grumann, A M , Prin of Sch of Agric—H E Bradford, A M

Library 175,000 vols , 600 periodicals *Fees* *Incidental Fee*, \$5 per semester *Living Expenses* in Lincoln Rooms, \$8 to \$15 p m Board, \$6 per week Tuition, \$30 p a *Teaching Staff* 337 *Students* 7971

NORTH CAROLINA, UNIV OF (founded in 1789), Chapel Hill, N C *President* H W Chase, Ph D , LL D *Deans* College of Liberal Arts—J F Royster, Ph D , Schools of Applied Science—A H Patterson, A M , Education—N W Walker, Ed M (acting), Commerce—D de Witt Carroll, M A , Law—L P McGehee, A B , Medicine—I H Manning, M D , Pharmacy—E V Howell, A B , Ph G , Engineering—G M Braune, C E , Graduate School—E Greenlaw, Ph D Director of School of Public Welfare—H W Odum, Ph D

Libraries 108,405 vols , 1005 current periodicals *Fees* Tuition, \$20 per quarter, Matriculation, \$12 per quarter *Halls of Residence*, \$3 to \$8 a month Board, \$21 a month *Teaching Staff* 135 *Students* 1944

NORTHWESTERN (founded 1855), Evanston, Ill *President* Walter Dill Scott, Ph D , LL D *Deans of Schools* Graduate School—J A James, Ph D , LL D , Medical—A I Kendall, Ph D , Dr P H , Law—J H Wigmore, M A , LL B , LL D , Dental—A D Black, M A , M D , D D S , D Sc , Music—P C Lutkin, Mus D , A G O , Commerce—R E Heilman, Ph D , Speech—R B Dennis, M.A , College of Liberal Arts—R C Flickinger, Ph D , Coll of Engineering (Director)—J. F Hayford, C E , D Sc , Educn (Dir)—E E Jones, Ph.D ; Medill School of Journalism (Dir)—H F Harrington, M A

Library 138,895 vols , 108,379 pamphlets *Fees* for tuition Undergraduate, \$100 per semester , Graduate not more than \$100 p a *Halls of Residence* \$115 to \$200 p a *Teaching Staff* 592 *Students* 8103

OHIO STATE UNIV. (founded 1870), Columbus, Ohio *President* Wm Oxley Thompson, D.D., LL.D. *Deans of Colleges* : Agriculture—

A Vivian, Ph G , Arts, Philos , and Sc—W E. Henderson, A M , Ph D , Commerce and Journalism—J. E. Hagerty, Ph D , Education—G F Arps, A M , Ph D , Engineering—E A Hitchcock ; Graduate School—W McPherson, M Sc , D Sc , Ph D

Library 225,000 vols *Fees* for tuition \$35 per quarter , Incidental, \$15 per quarter *Living Expenses* Furnished rooms, \$10 to \$15 p m Board, \$6 50 to \$8 per week *Teaching Staff* . 569 *Students* . 8313.

PENNSYLVANIA, UNIVERSITY OF (1740), Philadelphia, Pa *Provost* (acting) J H Penniman, Ph D , LL D *Deans of Faculties* College—R B Burke, A M , Towne Scientific Sch—J Frazer, Ph D , Wharton Sch—E R Johnson, Ph D , Sc D , Educn—J H Minnick, Ph D , Fine Arts—W P Laird, Sc D , Graduate Sch—H V Ames, Ph D , Medicine—W. Pepper, M D , Law—W E Mikell, LL D , Dentistry—C R Turner, M D , Vet Med—L A Klein, V M D , Graduate Sch of Med—G H Meeker, Ph D , LL D

Libraries 500,000 vols., 50,000 pamphlets. *Fees* for tuition: \$275 *Halls of Residence* Board and lodging from \$350 p a *Teachers* 1079 *Students* 13,577

PRINCETON (founded in 1747), Princeton, N J *President* J G Hibben, Ph D , LL D , Litt D *Deans* Graduate School—A F West, Ph D , LL D , Depts of Science—H B Fine, Ph D , LL D , Faculty—W F Magee, Ph D , LL D , College—H McClenahan, LL D , Sch of Engin—A M Greene, D Sc

Libraries 587,106 vols , 109,714 periodicals and pamphlets *Fees* for tuition \$300 *Halls of Residence* \$125 to \$275 p a Board, \$288 p a *Teachers* 213 *Students* 1967

STANFORD (founded 1891), California *President* Ray Lyman Wilbur *Deans* School of Educn—E P Cubberley , Law Sch—M R Kirkisco (acting) , Sch of Medicine—W Ophuls , Graduate Study—F C Franklin

Libraries 350,000 vols *Fees* per quarter for tuition Undergraduate, \$75 , Graduate, \$50 , Incidental (undergrads) , \$20 per quarter *Halls of Residence* \$16 50 to \$27 per quarter Board, \$30 to \$40 p m *Teaching Staff* 280 *Students* 2500

UNIVERSITY OF VIRGINIA (founded in 1819), Charlottesville, Va (State Univ) *President* E A Alderman, D C L., LL D *Deans of Departments* Univ. and College—J. M. Page, Ph D , LL D , Graduate Studies—R H Dabney, Ph D. , Law—W M Lile, LL D , Med—T Hough, Ph D , Engin—W M. Thornton, LL D. , Educn.—J. L. Manahan, Ph D

Libraries 90,000 vols. *Fees* per annum University, \$40 , tuition, \$160 *Halls of Residence* \$60 to \$95 p a Board, \$200 to \$300 p a *Teaching Staff* 100 *Students* 1672

WISCONSIN, UNIV OF (1849), Madison, Wis (State Univ) *President* E A. Burge, Ph D , Sc.D., LL D *Deans of Colleges* . Letters and Sc—G C. Sellery, Ph D , LL D , Engineering—F E. Turneure, C E., Dr.Engr. , Agric—H L. Russell, Ph.D. , Law School—H. S Richards,

Ph B, LL B, LL D, Medical Sch.—C. R. Bardeen, M.D., Graduate Sch—C S. Slichter, Sc D

Library 667,000 vols, 350,000 pamphlets *Fees* per semester for tuition, \$62, Incidental, \$15 *Living Expenses* in Madison: Room, \$4 to \$6 a week (single), \$3 to \$5 (double) Board, \$6 50 to \$9 a week *Teaching Staff* 1047 *Students* 11,334

YALE (founded 1701), New Haven, Conn *President* J. R. Angell, Litt D, LL D *Deans of Schools* Graduate School—W L Cross, Ph D., Litt D, Med—M C Winternitz, M D, Divinity—Rev C. R. Brown, LL D, Law—T W Swan, M A, Fine Arts—E U Meeks, A D G F, M A, Music—D S Smith, Mus D, Forestry—J W Toumey, Sc D, Yale College—F S Jones, LL D, Sheffield Scientific School—C H Warren, Ph D

Libraries 1,500,000 vols, 9000 periodicals *Fees* for tuition Undergraduate, \$300, Graduate, \$200 p a *Halls of Residence* \$100 to \$330 p a Board, \$9 per wk *Teaching Staff* 800 *Students* 4534

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BERLIN *Rektor* Prof Roethe *Deans of Faculties* and numbers of teachers and students in each Theol—Deissmann, 27, 270, Law—Bruns, 32, 2728, Med—Czerny, 228, 2031, Philos (including Pol Sc and Nat Sc)—Pompeckj, 290, 7493 Vacation courses at the German Institute for Foreigners (Deutsches Institut fur Auslander) in 1924, August 4–30 Lectures on German Literature, Art, History, educational matters, and economic relations, German language, Conversation Classes This Institute is open throughout the year for tuition in the German language, courses in German Literature and Civilization, excursions and social functions It undertakes to place students in German families It publishes *Mitteilungen fur Auslander* monthly

MARBURG *Rektor* Schaefer *Deans of Faculties* Theol—Hoelscher, Law— . . . , Med—Laewen, Letters and Sc—Wedekind Vacation course in German and English planned for 1923 Information about lodgings obtainable from Studentisches Wohnungsamt

XXVI

DISTRIBUTION OF GROUPS OF SUBJECTS IN THE
UNIVERSITIES AND UNIVERSITY COLLEGES OF
THE UNITED KINGDOM

SCHOOLS OF THEOLOGY

BIRMINGHAM, [Handsworth (Wesleyan) and Lichfield (Church of England) Theological Colls], BRISTOL, [Associated Colls], CAMBRIDGE, DURHAM, LEEDS, [Coll of the Resurrection, Mirfield], LIVERPOOL, [St Aidan's Coll, Birkenhead], LONDON, [New Coll, Hampstead (Congregational), Hackney Coll, Hampstead (Congregational), Regent's Park Coll (Baptist), King's Coll Theological Department (Church of England), Wesleyan Coll, Richmond, St John's Hall, Highbury (Church of England)], MANCHESTER, OXFORD, WALES, [Univ Coll, Bangor (Baptist Coll, Bangor, Independent Coll, Bangor, Church Hostel, Bangor), The Associated Theological Colls] ABERDEEN, EDINBURGH, GLASGOW, ST ANDREWS TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [St Patrick's Coll, Maynooth]

SCHOOLS OF LAW

CAMBRIDGE, LEEDS, LIVERPOOL, LONDON, [University Coll, King's Coll and the School of Economics, jointly], MANCHESTER, OXFORD, SHEFFIELD, WALES, [Univ Coll, Aberystwyth] ABERDEEN, EDINBURGH, GLASGOW BELFAST, TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [Univ Colls of Dublin, Cork, and Galway]

SCHOOLS OF MEDICINE

BIRMINGHAM, BRISTOL, CAMBRIDGE, DURHAM, [College of Medicine, Newcastle], LEEDS, LIVERPOOL, LONDON, [St Bartholomew's Hospl, St Thomas's Hospl, Westminster Hospl, Guy's Hospl, St George's Hospl, London Hospl, Middlesex Hospl, Charing Cross Hospl, London (Royal Free Hospl) Sch of Med for Women, University Coll and University Coll Hospl, King's Coll and King's Coll Hospl, St Mary's Hospl, London School of Tropical Med, Lister Institute of Preventive Med, Royal Army Medical Coll, Royal Naval Coll. (Greenwich)], MANCHESTER, OXFORD, SHEFFIELD, WALES, [Welsh National School of Med, Cardiff] ABERDEEN, EDINBURGH, GLASGOW, ST ANDREWS BELFAST, TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [Univ Colls. of Dublin, Cork, and Galway]

SCHOOLS OF DENTAL SCIENCE

BIRMINGHAM, BRISTOL, DURHAM [College of Medicine, Newcastle, and Newcastle Dental Hospl.], LEEDS, LIVERPOOL, LONDON [St. Bartholomew's Hospl, Westminster Hospl, Guy's Hospl, St George's

Hospl, London Hospl, Middlesex Hospl, Charing Cross Hospl, King's Coll. and King's Coll Hospl, St Mary's Hospl, London School of Dental Surgery, University Coll Medical School, Dental Department], MANCHESTER, SHEFFIELD BELFAST, TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [Univ Colls of Dublin and Cork]

SCHOOLS OF VETERINARY SCIENCE

LIVERPOOL, LONDON, [Royal Veterinary Coll] EDINBURGH, [Royal (Dick) Veterinary Coll]

SCHOOL OF PHARMACY

GLASGOW [Royal Technical Coll]

SCHOOLS OF MUSIC

BIRMINGHAM, CAMBRIDGE, LONDON, [Royal Academy, Royal College, Trinity College], MANCHESTER, [Royal Manchester Coll of Music], OXFORD, WALES, [Univ Colls of Aberystwyth and Cardiff], Univ Coll, Nottingham, Univ Coll, Reading, Univ Coll, Southampton EDINBURGH TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [Univ Coll, Dublin, University Coll, Cork]

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Art of the Theatre LIVERPOOL

Civic Art and Design, and Town Planning BIRMINGHAM, LIVERPOOL, LONDON, [University Coll—Bartlett School], SHEFFIELD

Ecclesiastical Art LONDON, [King's Coll]

SCHOOLS OF ARCHITECTURE

CAMBRIDGE, DURHAM, [Armstrong Coll], LIVERPOOL, LONDON, [Univ Coll—Bartlett School], MANCHESTER, SHEFFIELD BELFAST, [Municipal Coll of Technology], NATIONAL OF IRELAND, [Univ Coll, Dublin]

Naval Architecture and Marine Engineering DURHAM, [Armstrong College], LIVERPOOL GLASGOW BELFAST

SCHOOL OF JOURNALISM

LONDON, [University Coll, King's Coll and School of Economics, jointly]

SCHOOL OF LIBRARIANSHIP

LONDON, [University Coll]

SCHOOLS OF COMMERCIAL SCIENCE

BIRMINGHAM, DURHAM, [Armstrong Coll], LIVERPOOL, LONDON, [School of Economics], MANCHESTER, Univ Coll, Nottingham;

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Univ Coll, Reading, Univ Coll, Southampton ABERDEEN, EDINBURGH BELFAST, NATIONAL OF IRELAND, [Univ. Colls of Dublin, Cork, and Galway]

SCHOOLS OF ENGINEERING

All English Universities, Univ. Colls. of Cardiff, Swansea, Nottingham, and Southampton EDINBURGH, GLASGOW, ST ANDREWS, [Univ Coll, Dundee] BELFAST, [Municipal Coll of Technology], TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [Univ Colls. of Dublin, Cork, and Galway]

SCHOOLS OF METALLURGY

BIRMINGHAM, CAMBRIDGE, DURHAM, [Armstrong Coll], LEEDS; LIVERPOOL, LONDON, [Imperial Coll], MANCHESTER, SHEFFIELD (*including Non-ferrous Metals*), WALES, [Univ Colls of Cardiff and Swansea] EDINBURGH, [Heriot-Watt Coll], GLASGOW, [Royal Technical Coll]

SCHOOLS OF MINING

BIRMINGHAM, DURHAM [Armstrong Coll], LEEDS, LONDON, [Imperial Coll], MANCHESTER, SHEFFIELD, WALES, [Univ Coll, Cardiff], Univ Coll, Nottingham EDINBURGH, [Heriot-Watt Coll], GLASGOW, [Royal Technical Coll]

Mining and Technology of Petroleum BIRMINGHAM, LONDON, [Imperial Coll]

Mining Geology LONDON, [Imperial Coll].

SCHOOLS OF AGRICULTURE, FORESTRY, HORTICULTURE, AND ESTATE MANAGEMENT

BRISTOL, [Royal Agric Coll, Cirencester and National Fruit and Cider Institute, Long Ashton], CAMBRIDGE, DURHAM, [Armstrong Coll], LEEDS, LONDON, [Rothamsted-Lawes Agricultural Trust, South-Eastern Agricultural Coll, Wye], OXFORD, WALES, [Univ Colls of Aberystwyth and Bangor], Univ Coll, Nottingham [in conjunction with Midland Agric Coll], Univ Coll, Reading ABERDEEN, EDINBURGH, GLASGOW, [West of Scotland Agricultural Coll] Royal College of Science for Ireland

Tropical Agriculture CAMBRIDGE

Forestry CAMBRIDGE, OXFORD, WALES, [Univ Coll, Bangor]. ABERDEEN, EDINBURGH

Horticulture CAMBRIDGE, Univ Coll, Reading

Dairying Univ Coll, Reading

SCHOOLS OF EDUCATION AND TRAINING COLLEGES

All Universities and University Colleges

Training of Teachers for the Deaf MANCHESTER.

XXVII

DISTRIBUTION OF SUBJECTS OF STUDY TO WHICH
EXCEPTIONAL ATTENTION IS GIVEN IN CERTAIN OF THE UNIVER-
SITIES AND UNIVERSITY COLLEGES OF THE UNITED KINGDOM

(The omission of the name of a University or College from under any of the following subject-headings is not to be taken as an indication that the subject is not studied)

Subjects generally provided for in Schools of Theology, Law, Medicine, etc., or ordinarily recognized as branches of the following departments of knowledge are omitted from these lists, viz Economics, English Language and Literature, History, ancient, mediæval, and modern, Logic, Mathematics, Philology, Philosophy, mental and moral, Phonetics, Anatomy, human and comparative, Astronomy, Botany, Biology, Chemistry, inorganic, organic, physical, physiological (biochemistry), technical, Embryology, Geography, Geology, Histology, Mineralogy, Morphology, Palæontology, Pathology, Physics, Physiology, Psychology, Zoology.

ARTS

Anthropology, including Primitive Technology and Archæology:
BIRMINGHAM, CAMBRIDGE, LONDON, [University Coll],
OXFORD EDINBURGH NATIONAL OF IRELAND, [Univ Coll,
Dublin] (Vide also Ethnology)

Archæology, Assyrian and Babylonian LIVERPOOL, LONDON, [Univer-
sity Coll], OXFORD

„ *Celtic* NATIONAL OF IRELAND, [The Univ Colls]

„ *Central American* LIVERPOOL

„ *Classical* CAMBRIDGE, LIVERPOOL, LONDON, [University
Coll], OXFORD TRINITY COLLEGE, DUBLIN

„ *Cretan* Oxford

„ *Egyptian* LIVERPOOL, LONDON, [University Coll], MAN-
CHESTER, OXFORD

„ *Numismatics* CAMBRIDGE, LIVERPOOL, OXFORD

Astronomy CAMBRIDGE, LIVERPOOL, OXFORD EDINBURGH,
GLASGOW TRINITY COLLEGE, DUBLIN

Astro-physics CAMBRIDGE, LONDON, [Imperial Coll]

History, American OXFORD

„ *British Dominions* CAMBRIDGE, LONDON, [King's College],
MANCHESTER, OXFORD, WALES, [Univ Coll, Aberystwyth]

„ *Byzantine* LONDON, [King's Coll], OXFORD

„ *Central European* LONDON, [King's Coll]

„ *French, and Institutions* CAMBRIDGE, LONDON, MANCHESTER

„ *Indian, and Economics* CAMBRIDGE, LONDON, [School of
Oriental Studies], OXFORD. EDINBURGH.

- History, Irish* MANCHESTER. NATIONAL OF IRELAND, [The Univ Colls]
 „ *of London* : LONDON, [University Coll]
 „ *Military* OXFORD, LONDON, [University Coll]
 „ *Naval*. CAMBRIDGE
 „ *Russian* LIVERPOOL, LONDON, [King's Coll]
 „ *Scottish* EDINBURGH, GLASGOW
 „ *Welsh* WALES [Post at Bangor]
Palæography, Diplomatic and Papyrology, Bibliography CAMBRIDGE,
 LIVERPOOL, LONDON, [University and King's Colls], MAN-
 CHESTER, OXFORD EDINBURGH
Poetry OXFORD
Political Science CAMBRIDGE, LONDON, [School of Economics], OXFORD,
 WALES, [Univ Coll, Aberystwyth] EDINBURGH, GLASGOW
Public Administration and Finance. LONDON, [School of Economics],
 MANCHESTER
Public Reading and Speaking DURHAM ABERDEEN, EDINBURGH
 TRINITY COLLEGE, DUBLIN
Solar Physics CAMBRIDGE

LANGUAGES AND LITERATURE (omitting those which are studied in the large majority of Universities and Colleges, viz, Hebrew including Aramaic and Syriac, Greek, Latin, French, German, Italian, Russian, and Spanish)

- Amharic*. LONDON, [School of Oriental Studies]
Anglo-Saxon CAMBRIDGE, LONDON, [Univ Coll], OXFORD, TRINITY
 COLLEGE, DUBLIN
Arabic BRISTOL, CAMBRIDGE, LONDON, [School of Oriental Studies,
 MANCHESTER, OXFORD EDINBURGH, GLASGOW TRINITY
 COLLEGE, DUBLIN
Armenian LONDON, [School of Oriental Studies]
Assamese LONDON, [School of Oriental Studies]
Bantu CAMBRIDGE, LONDON, [School of Oriental Studies]
Bengali CAMBRIDGE, LONDON, [School of Oriental Studies], OXFORD
Burmese CAMBRIDGE, LONDON, [School of Oriental Studies], OXFORD
Celtic LONDON, [University Coll], OXFORD ABERDEEN, EDIN-
 BURG, GLASGOW BELFAST, TRINITY COLLEGE, DUBLIN
Chinese CAMBRIDGE, LIVERPOOL, LONDON, [School of Oriental
 Studies], MANCHESTER, OXFORD
Dravidian Languages LONDON, [School of Oriental Studies]
Dutch LONDON, [Univ Coll and Bedford Coll, jointly]
Ethiopic LONDON, [School of Oriental Studies]
Greek, Mediæval and Modern LONDON, [King's Coll]
 „ *Byzantine, and Modern* OXFORD
Gujerati. LONDON, [School of Oriental Studies]
Hausa. CAMBRIDGE, LONDON, [School of Oriental Studies]

Hindustani CAMBRIDGE, LONDON, [School of Oriental Studies],
OXFORD TRINITY COLLEGE, DUBLIN.

Irish. TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND, [The
Univ Colls]

Japanese LONDON, [School of Oriental Studies]

Kashmiri LONDON, [School of Oriental Studies]

Malay LONDON, [School of Oriental Studies]

Marathi CAMBRIDGE, LONDON, [School of Oriental Studies]

Melanesian. LONDON, [School of Oriental Studies]

Nepali LONDON, [School of Oriental Studies]

Pali CAMBRIDGE, LONDON, [School of Oriental Studies]

Persian CAMBRIDGE, LONDON, [School of Oriental Studies], OXFORD
TRINITY COLLEGE, DUBLIN

Polynesian LONDON, [School of Oriental Studies]

Portuguese CAMBRIDGE, LONDON, [King's College], Univ Coll,
Nottingham

Rhæto-Romance CAMBRIDGE

Rumanian CAMBRIDGE, LONDON, [King's College]

Sanskrit CAMBRIDGE, LONDON, [School of Oriental Studies], OXFORD,
EDINBURGH TRINITY COLLEGE, DUBLIN

Scandinavian Languages—*Danish, Norwegian, Swedish, Icelandic*
CAMBRIDGE, LONDON, [University Coll], OXFORD

Siamese LONDON, [School of Oriental Studies]

Sinhalese, Tamil, and Telugu CAMBRIDGE, LONDON, [School of Oriental
Studies], OXFORD

Slavonic Languages, other than Russian CAMBRIDGE, LONDON,
[King's Coll], Univ Coll, Nottingham

Slavonic Philology, Comparative LONDON, [King's Coll]

Swahili CAMBRIDGE, LONDON, [School of Oriental Studies]

Talmudic CAMBRIDGE

Tibetan LONDON, [School of Oriental Studies]

Turkish CAMBRIDGE, LONDON, [School of Oriental Studies]

Welsh LIVERPOOL, WALES, [the 4 Univ Colls]

Yoruba LONDON, [School of Oriental Studies]

Comparative Philology CAMBRIDGE, LONDON, [University Coll,
King's Coll., School of Oriental Studies], OXFORD ABER-
DEEN, EDINBURGH, GLASGOW TRINITY COLLEGE, DUBLIN.

Imperial Latin MANCHESTER

Phonetics LONDON, [University Coll], Univ Coll, Nottingham

SCIENCE, APPLIED SCIENCE, COMMERCE, SOCIOLOGY

Aero-dynamics. LONDON, [Imperial Coll]

Animal Pathology. CAMBRIDGE

Aviation and Aero-Engineering CAMBRIDGE, LONDON, Imperial Coll.,
East London Coll

- Colloidal Chemistry* BRISTOL, MANCHESTER
Cytology LIVERPOOL
Economic Entomology. LIVERPOOL, LONDON, [Imperial Coll] EDINBURGH
Ethnology and Social Anthropology CAMBRIDGE, LONDON, [School of Econ, University Coll], OXFORD
Eugenics LONDON, [University Coll]
Genetics CAMBRIDGE, OXFORD EDINBURGH
Geodesy CAMBRIDGE
Meteorology CAMBRIDGE, LONDON, [Imperial Coll], OXFORD
Military Science. BRISTOL, CAMBRIDGE, DURHAM, LONDON; OXFORD, Univ Coll, Nottingham
Oceanography and Fisheries LIVERPOOL, WALES, [Univ Coll, Aberystwyth] ABERDEEN
Physiology of Animal Nutrition CAMBRIDGE ABERDEEN
Plant Pathology LONDON, [Imperial Coll]
Protozoology LONDON, [Lister Institute, King's Coll] EDINBURGH
Psychology, Comparative. ABERDEEN
 „ *Experimental* CAMBRIDGE, LONDON, [University Coll, King's Coll, Bedford Coll], MANCHESTER EDINBURGH, GLASGOW
 „ *Industrial* LONDON, [School of Economics]
Railway Economics MANCHESTER, LONDON, [School of Economics].
Spectroscopy LONDON, [Imperial Coll, King's Coll], OXFORD
Statistics CAMBRIDGE, LONDON, [University Coll, School of Economics] ABERDEEN, EDINBURGH
Sociology LONDON, [School of Economics], LIVERPOOL
Social Study BIRMINGHAM, LEEDS EDINBURGH, GLASGOW, ST ANDREWS, [Univ Coll, Dundee]
Household Science LONDON, [King's Coll Household and Social Sci Dept], WALES, [Univ Coll, Cardiff], Univ Coll, Reading

LAW

- Law, International* CAMBRIDGE, LIVERPOOL, LONDON, [School of Economics], OXFORD. ABERDEEN, EDINBURGH, GLASGOW
 „ *Commercial* LONDON, [School of Economics]
 „ *Comparative* LONDON, [University Coll]
 „ *Indian* CAMBRIDGE, LONDON, [School of Oriental Studies]; OXFORD
 „ *Industrial* BIRMINGHAM
 „ *Roman-Dutch* CAMBRIDGE, OXFORD, LONDON
 „ *Russian, and Economics* LONDON, [King's Coll, School of Economics].
 „ *Scots* The Scottish Universities

MEDICINE

- Cancer Research* : LONDON, [Middlesex Hospl], MANCHESTER
 ABERDEEN.
- History of Medicine* LONDON, [University Coll] EDINBURGH
- Medical Entomology* . CAMBRIDGE
- Medical Statistics* LONDON, [University Coll]
- Parasitology and Helminthology* CAMBRIDGE, LIVERPOOL, LONDON,
 [School of Tropical Med] ABERDEEN, EDINBURGH.
- Radiology and Electrolgy* . CAMBRIDGE, LIVERPOOL.
- Tropical Medicine* LIVERPOOL, LONDON, [Royal Army Med Coll,
 School of Tropical Med] EDINBURGH
- Tropical Surgery* LONDON, [School of Tropical Med.]
- Tuberculosis* WALES, [Univ Coll, Cardiff] EDINBURGH, GLASGOW.

TECHNOLOGY

- Brewing* BIRMINGHAM
- Chemical Engineering* LONDON, [University Coll, Imperial Coll]
- Colour Chemistry, Bleaching, Dyeing* LEEDS, MANCHESTER, Univ
 Coll, Nottingham GLASGOW, [Royal Technical Coll]
- Economic Mineralogy* LONDON, [Imperial Coll]
- Electro-chemistry* MANCHESTER
- Electrotechnics* . MANCHESTER, LONDON, [Imperial Coll] BELFAST,
 [Municipal Coll]
- Engineering, Automobile* . BRISTOL
- „ *Dock and Harbour* LIVERPOOL TRINITY COLLEGE, DUBLIN
- „ *Marine* DURHAM, [Armstrong Coll], LIVERPOOL GLASGOW
- „ *Municipal and Sanitary* LIVERPOOL, LONDON, MANCHESTER
 GLASGOW
- „ *Railway* LIVERPOOL, LONDON, [Imperial Coll]
- „ *Refrigeration* LIVERPOOL
- „ *Water Supply and Irrigation* MANCHESTER
- Fuel, Coal and Gas* LEEDS, LONDON, [Imperial Coll], MANCHESTER,
 [Coll. of Technology], SHEFFIELD, Univ Coll, Nottingham
 GLASGOW
- Glass* SHEFFIELD
- Leather* LEEDS
- Optical Engineering and Applied Optics* : LONDON, [Imperial Coll]
- Photography* MANCHESTER
- Sugar* : GLASGOW, [Royal Technical Coll].
- Textiles* LEEDS, MANCHESTER; Univ Coll, Nottingham. GLASGOW,
 [Royal Technical Coll] BELFAST, [Municipal Coll]
- Woods and Fibres* LONDON, [Imperial Coll].

XXVIII

VACATION COURSES, 1924

The practice of holding Summer Courses in University towns in the United Kingdom increases year by year. In 1923 there were courses organized by or in connexion with the Universities of Cambridge, Leeds, Liverpool, London, Oxford, Wales, Aberdeen, Edinburgh, Glasgow, and Dublin. In addition, courses in connexion with University Tutorial Classes were held at nine centres. The Board of Education publishes in April lists of such courses, and of many other summer courses unconnected with Universities, and a list of Holiday Courses on the Continent. Regarding some of these, information will be found in Appendix XXV.

The Summer Meeting for University Extension Students and others to be held at CAMBRIDGE will be in two parts. I Aug 1 to Aug 12, and II Aug 12 to Aug 21. The main subject of study will be *Egypt*, and there will be lectures on the country in Ancient, Mediæval, and Modern times. In the *Science* section there will be lectures on recent discoveries. Lectures and classes designed for *Foreign Students*, but open to other members, will deal with English Literature with special reference to great writers who have been educated at Cambridge. There will also be lectures in *Theology*. Accommodation for a limited number of students will be provided in some of the colleges. Apply to Rev. Dr. Cranage, Syndicate Buildings, Cambridge.

The University of LONDON Holiday Course for Foreigners will be held from July 18 to Aug 14. It is of special value to Teachers in Secondary Schools and persons preparing for teaching. It will include Lectures on Stevenson, Kipling, and Wells, on the Sounds of Modern English, on The English Village and Agricultural Labour, Urban Life and Manufacture, and the British Labour Movement, on the History of London, on English Architecture, etc., in addition to classes and exercises in Phonetics. Certificates of proficiency and attendance. Fee, £5. Owing to the Empire Exhibition an unusually large attendance is expected, and application should be made early to the University Extension Registrar, University of London, London, S W 7.

At OXFORD a Vacation Course in the *History of the Middle Ages* will be held from July 28 to Aug 23. It aims to give to *advanced students* and teachers of history opportunities of making personal contact with distinguished mediæval scholars, of reading in the buildings of a famous mediæval foundation, and of breathing the mediæval atmosphere of an historic city. Fee, £10 (£5 5s for either fortnightly part). Apply to the Secretary to the Delegation for the Extension of Teaching, Acland House, Oxford.

XXIX

COMPARISON OF STUDENT ENROLMENT AND
DEGREES CONFERRED IN 1912-13 AND IN 1922-23

[Figures in *italics* represent women students—or degrees conferred on women, other figures stand for totals, irrespective of sex. Except where otherwise stated, the first of every pair of numbers is for 1912-13, and the second for 1922-23.]

ENGLAND AND WALES

BIRMINGHAM Full-time students undergraduate, 834, 1548, advanced, 54, 88, total, 888, 1636, 338, 488

Degrees B A, 41, 51, 24, 29 B Sc, 54, 161, 6, 14 B Com, 3, 16, 0, 1 M B, Ch B, 10, 43, 0, 12 B Mus, 1, 2 Higher degrees, 34, 53, 9, 8

BRISTOL Full-time students undergraduate, 524, 991, advanced, 15, 30, total, 539, 1021, 201, 328

Degrees B A, 20, 63, 12, 35 B Sc, 30, 48, 10, 14 B Sc Eng, 8, 44 M B, Ch B, 4, 15, 1, 5 Higher degrees, 5, 11, 4, 4

CAMBRIDGE. Undergraduates in residence (Michaelmas 1913, 1923), 3306, 4192

Degrees B A, 907, 1391, M B, 57, 45, B Ch, 51, 50, LL B, 72, 98, Mus B, 5, 8 Higher degrees, 440, 353

DURHAM Degrees B A, 108, 133, 17, 34 B Sc, 52, 111, 2, 13 M B, B S, 25, 52, 3, 11 B Mus, 15, 4 B Com, 0, 3 Higher degrees, 108, 95, 12, 15

Students in *Durham Colleges*, 230, 220, 20, 66

College of Medicine, Newcastle Full-time students 190, 419, 13, 61

Armstrong College Full-time students undergraduate, 517, 719, advanced, 11, 13, total, 528, 732, 141, 235

LEEDS Full-time students undergraduate, 641, 1522, advanced, 13, 37, total, 654, 1559, 113, 402

Degrees B A, 44, 75, 18, 45 B Sc, 44, 154, 5, 28 LL B, 2, 9 M B, Ch B, 12, 29, 0, 7 B Com, 0, 11 Higher degrees, 34, 29, 4, 6

LIVERPOOL Full-time students undergraduate, 832, 1975, advanced, 51, 56, total, 883, 2031, 269, 603

Degrees B A, 69, 105, 52, 69 LL B, 5, 3 M B, Ch B, 13, 75, 2, 18 B Sc, 62, 104, 24, 37 B Eng, 18, 52 B Com, 1, 15 B Arch., 0, 13 B D S, 0, 4 B V Sc, 0, 5. Higher degrees, 63, 77, 16, 14

LONDON Examined finally for degrees internal students, 983, 2013, external, 1006, 1178, roll of internal students, 4664, 8954

COMPARISON OF STUDENT ENROLMENT 687

University College Full-time students undergraduate, 729, 1430, advanced, 102, 153, total, 831, 1583, 224, 708 Degrees obtained B A, 50, 74, 24, 31 LL B, 12, 7 MB, BS, 14, 14 B Sc, 44, 46, 15, 8 B Sc (Eng), 15, 38 Higher degrees, 31, 56, 8, 9

King's College Full-time students undergraduate, 497, 963, advanced, 40, 69, total, 537, 1032, 135, 337 Degrees obtained B A, 37, 110, 0, 49 LL B, 6, 8 B Sc, 26, 73, 2, 11 B Sc Eng, 8, 33 MA, 1, 9

Imperial College Full-time Diploma students, 789, 1017, other students, 108, 109 Diplomas obtained DIC, 40, 80, ARCS, 52, 90, ARSM, 27, 53, ACGI, 84, 99

East London College Full-time students undergraduate, 179, 493, advanced, 2, 20, total, 181, 513, 74, 164 Degrees obtained B A, 20, 25 B Sc 29, 63 B Sc (Eng), 8, 31 Higher degrees, 2, 0

Birkbeck College Internal students 359, 626, others, 758, 440 Degrees obtained B A, 18, 27, 9, 12 B Sc, 24, 44, 5, 7 Higher, 0, 7

London School of Economics Full-time students undergraduate, 207, 415, advanced, 22, 69, total, 229, 484, 76, 169 Degrees obtained B Sc (Econ), 30, 49, B Com, 0, 29, Higher, 3, 17

Agricultural College, Wye Internal, 21, 29, other students, 130, 125 Degrees obtained, 4, 7

Bedford College for Women Full-time students undergraduate, 250, 582, advanced, 44, 27 Degrees obtained B A, 41, 57, B Sc, 15, 30 Higher degrees, 3, 13

Royal Holloway College Full-time students undergraduate, 141, 194, advanced, 5, 2 Degrees obtained B A, 32, 43 B Sc, 6, 19 Higher degrees, 1, 4

Westfield College Full-time students undergraduate, 66, 118, advanced, 2, 8 Degrees obtained B A, 9, 17, B Sc, 1, 3, higher, 2, 3

MANCHESTER Full-time students undergraduate, 1139, 2127, advanced, 133, 176, total, 1272, 2303, 297, 660 Faculty of Medicine, 376, 711, 33, 146 Technology, 246, 339, 2, 1 Other faculties, 1095, 1610, 320, 581 Total, 1670, 2649

Degrees B A, 97, 99 B Sc, 100, 170 LL B, 11, 7 MB, Ch B, 19, 50 Mus B, 1, 3 B Sc Tech, 19, 94 B Com, 8, 32 Higher degrees, 108, 136

OXFORD Undergraduates in 1913 (including registered women students) and 1923 4386, 5601, 361, 889

Degrees B A, 749, 1129 MA, 407, 295 BM, 19, 24 BMus, 11, 9 B Sc, 7, 22 B Litt, 13, 45 BCL, 10, 23 Higher degrees, 25, 57

SHEFFIELD Full-time students undergraduate, 333, 791, advanced, 13, 31, total, 345, 822, 91, 250

Degrees B A, 33, 41, 21, 34 B Sc, 10, 63, 3, 26 MB, Ch B, 3, 16, 0, 6 LL B, 0, 10 B Met, 4, 16 B Sc Tech, 0, 4 B.Eng, 8, 27 Higher degrees, 19, 71, 4, 13

WALES. Degrees B A, 199, 244, 74, 120. B Sc, 60, 201, 46, 37 LL B, 0, 4 B Mus, 0, 6, 0, 2 M B, B Ch, 0, 1 Higher degrees, 30, 52, 3, 11.

Aberystwyth Full-time students: undergraduate, 427, 845, advanced, 24, 38, total, 451, 883, 179, 285 Degrees obtained: B A, 76, 124, 26, 44 B Sc, 26, 112, 7, 12 LL B, 0, 4 B Mus, 0, 3, 0, 1 Higher degrees, 13, 26, 2, 5

Bangor Full-time students undergraduate, 292, 574, advanced, 18, 21, total, 310, 595, 103, 246 Degrees obtained B A, 44, 52, 13, 31. B Sc, 14, 45, 2, 11 Higher degrees, 8, 13, 1, 4

Cardiff Full-time students undergraduate, 494, 977, advanced, 34, 17, total, 528, 994, 160, 354 Degrees obtained B A, 72, 85, 25, 48. B Sc, 23, 67, 6, 11

INDEPENDENT UNIVERSITY COLLEGES *Exeter* Full-time students undergraduate, 189, 315, advanced, 0, 3, total, 189, 318, 105, 174 Degrees obtained B A, 2, 11 B Sc, 1, 11 M A, 1, 0

Nottingham Full-time students undergraduate, 233, 442, advanced, 6, 38, total, 239, 480, 99, 163 Degrees obtained B A, 11, 26, 5, 14 B Sc, 19, 55, 1, 1 B Sc Eng, 3, 9 B Sc Econ, 0, 4 Higher degrees, 0, 5

Reading Full-time students undergraduate, 371, 570, advanced, 16, 3, total, 387, 573, 190, 385 Degrees obtained B A, 15, 15, 8, 12 B Sc, 5, 16, 0, 3 B Sc Agr, 2, 9, 0, 1 B Sc Hortic, 0, 1 Higher degrees, 1, 1

Southampton Full-time students undergraduate, 167, 339, advanced, 1, 7, total, 168, 346, 30, 183 Degrees obtained B A, 15, 5 B Sc, 12, 15 B Sc Eng, 3, 8 B Sc Econ, 0, 1 B Com, 0, 2

SCOTLAND

ABERDEEN Students (matriculated) 1043, 1566, 318, 557
Degrees M A, 149, 150, 75, 93 B Sc, 16, 41, 4, 13 B Sc Agr, 12, 27 B Sc For, 0, 2 B Com, 0, 19 LL B and B L, 1, 9 M B, Ch B, 40, 109, 1, 29 Higher degrees, 30, 33, 0, 3

EDINBURGH Students (matriculated) 3352, 4370, 572, 1169
Degrees M A, 294, 327, 137, 163 B Sc, 72, 202, 4, 22 B Com, 0, 35, 0, 4 LL B and B L, 15, 27, 0, 2 M B, Ch B, 178, 296, 10, 71 Mus B, 1, 4, 1, 1 Higher degrees, 112, 88, 3, 11

GLASGOW Students (matriculated) 2835, 4896, 648, 1353
(Returns for 1922-23 include 328 Science students of Royal Tech Coll which was not affiliated in 1912-13)

Degrees M A, 274, 327, 121, 147 B Sc, 98, 308, 3, 31 M B, Ch B, 90, 285, 9, 98 LL B and B L, 20, 37, 0, 1 Higher degrees, 39, 22, 1, 3

Royal Technical College Students full-time, 242, 672.

ST. ANDREWS Students (matriculated): 521, 804, 216, 329
Degrees M A, 52, 43, 25, 27 B Sc, 8, 79, 2, 14 M B, Ch B, 11, 41, 3, 15 B Phil, 0, 2 Higher degrees, 9, 18, 0, 2

IRELAND

BELFAST Students 514, 1153, 138, 467
 Degrees B A, 51, 34, 14, 13 B Sc, 15, 31, 7, 24 B Sc Eng, etc, 11, 18 LL B, 2, 9, 0, 1 B Sc Com, 2, 7 M B, 39, 115, 0, 28 Higher degrees, 17, 34, 2, 11

DUBLIN Students undergraduate, 1110, 1099 (excluding training college, 0, 133), 161, 225, graduate, 75, 118, 5, 20

Degrees B A, 230, 311, 37, 61 B Sc, 3, 3 B Agr, 0, 2 M B, 53, 95, 4, 10 LL B, 14, 9, 0, 1 B Dent Sc, 1, 0 Mus B, 2, 3 B A I, 20, 55 Higher degrees, 128, 93, 12, 12

NATIONAL UNIVERSITY OF IRELAND Degrees B A, 231, 186, 51, 36 B Sc, 34, 28, 5, 12 LL B, 2, 3 M B, 61, 137, 1, 31. B D S, 1, 0 B E, 24, 33 B Comm, 1, 46, 0, 28 B Mus, 0, 1 Higher degrees, 47, 37, 6, 6

University College, Dublin Students undergraduate, 809, 1207, graduate, 69, 64, occasional, 31, 7 Degrees obtained B A, 93, 83, 29, 17 B Sc, 9, 28, 0, 7 LL B, 2, 3 M B, 24, 78, 1, 11 B E, 4, 19 B Agr, 0, 2 B Comm, 0, 14, 0, 8 Higher degrees, 22, 22, 2, 3

Cork Students 429, 613

Galway Students undergraduate, 140, 169, 20, 48, graduate, 10, 22, 6, 9, part-time, 7, 9 Degrees obtained B A, 8, 10, 4, 5 B Sc, 1, 2, 0, 1 B E, 10, 2 M B, 0, 9, 0, 3 Higher degrees, 3, 1

CANADA

ACADIA Students 244, 293, 43, 95

Degrees B A, 39, 31, 8, 18 B Sc, 5, 8 M A, 7, 5, 3, 1

ALBERTA Students 333, 1259, 43, 389

Degrees B A, 8, 42 LL B, 0, 10 B Sc, 1, 11 B Sc in Pharmacy, 0, 5, in App Sc, 5, 10, in Agr, 0, 12 M A, 2, 11 M Sc, 0, 2

BISHOP'S COLLEGE Students 58, 75, 8, 20

Degrees B A, 11, 15 M A, 6, 4 L S T, 8, 2 Mus Bac, 0, 1.

BRITISH COLUMBIA (1915-16 and 1922-23) Students 379, 1194.

Degrees B A, 41, 106, 17, 60 B App Sc, 0, 37 B S Agr, 0, 12 Higher degrees, 0, 21

DALHOUSIE Students undergraduate, 402, 683, 90, 148, graduate, 0, 5, special, 47, 65

Degrees B A, 35, 45, 10, 22 B Sc, 4, 4, 0, 1 LL B, 12, 20 B Com, 0, 3 M D, C M, 7, 20, 0, 2 D D S, 2, 17, 0, 1 Higher degrees, 3, 8, 2, 4

KING'S COLLEGE Students 83, 131

Degrees B A, 6, 21 B Sc, 0, 2 B C L, 5, 8 Higher degrees, 3, 13.

LAVAL Students : 1160, 2127 (including those in affiliated colleges and seminaries, 537, 1180)

Degrees in Arts, 53, 128, Philos, 7, 18, Science, 20, 26, Theol, 4, 12, Law, 44, 41, Med, 29, 59, Agr, 4, 7, Forestry, 9, 2, Surveying, 1, 5, Comm and Econ, 0, 13.

MCGILL Students undergraduate, 1600, 2450, 391, 357, graduate, 112, 93, part-time, 220, 340

Degrees B A, 59, 110 B Sc, 81, 158 B C L and LL B, 16, 16 M D, C M, 61, 126 D D S, 4, 24 B S A, 19, 21 B Com, 0, 46 B Arch, 0, 6 B H S, 0, 4 Mus B, 0, 2 Higher degrees, 21, 34

McMASTER Students full-time, 273, 283, part-time, 28, 38

Degrees B A, 57, 56, 17, 25 B Sc, 1, 0 Higher degrees, 12, 13, 1, 1

MANITOBA Students undergraduate, 720, 1908, 112, 568, graduate, 10, 60, 0, 11, part-time, 92, 56

Degrees B A, 75, 138, 16, 62 LL B, 16, 35 M D, 28, 22, 1, 2 Other bachelor degrees, 6, 63 Higher degrees, 5, 11

MONTREAL Students 1208, 2635 (excluding those in classical colleges, high schools, and schools of music, 932, 2613)

Degrees in Arts, 152, 232, 7, 28 Science, 0, 37 Theol, 0, 29 Law, 28, 22 Med, 43, 70, 0, 7 Dent Sc, 37, 73 Vet Sc, 8, 9 Pharm., 3, 17 Comm and Econ, 0, 86, 0, 63 Agr, 4, 4 Dom Sc, 0, 115 Music, 152, 194, 7, 13

MOUNT ALLISON Students undergraduate, 180, 187, 43, 48, graduate, 3, 6, 1, 3, part-time, 0, 63, occasional, 56, 75

Degrees B A, 26, 25, 15, 11 B Sc, 0, 6 M A, 1, 2

NEW BRUNSWICK Students undergraduate, 151, 135, 23, 30, graduate, 1, 2, part-time, 8, 1

Degrees B A, 17, 8, 8, 3 B Sc in Eng, 20, 20, in Forestry, 3, 5 Higher degrees, 4, 5

OTTAWA Students (including preparatory classes), 624, 901

Degrees in Theol, 2, 7, Philos, 23, 33, Arts, 8, 13, Comm, 10, 6

QUEEN'S Students 1576, 1871

Degrees B A, 203, 131, 57, 60 B Sc, 54, 116 B Com, 0, 10, 0, 2 M D, 40, 39 Higher degrees, 23, 17, 2, 5

ST FRANCIS XAVIER Students 175, 211, 20, 40

Degrees B A, 10, 22 B Sc, 0, 3 M A, 2, 2

SASKATCHEWAN Students undergraduate, 248, 730, 34, 192, graduate, 8, 100, 2, 33

Degrees B A, 21, 78, 8, 51 B Sc, 1, 9, 0, 2 Other degrees, 0, 35

TORONTO Students undergraduate, 4006, 4126, 757, 1306, graduate, 139, 300, 0, 81, part-time, 21, 312, occasional, 234, 162

Degrees B A, 303, 328 M B, 86, 197 B Sc (Med), 0, 3

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TRINITY COLLEGE, TORONTO Students undergraduate, 178,
157, 54, 52, graduate, 23, 19
Degrees in Divinity, 6, 5

VICTORIA, TORONTO Students undergraduate, 427, 555,
139, 274, graduate, 14, 21, occasional, 83, 27.

Degrees in Divinity, 4, 31

WESTERN ONTARIO Students full-time, 120, 471, 0, 126, part-
time, 75, 139, 35, 72

Degrees B A, 6, 50, 3, 18 M D, 27, 24 Higher degrees, 3,
5, 1, 4

AUSTRALIA

ADELAIDE Students undergraduate, 388, 770, graduate, 19,
48, part-time and occasional, 310, 576, conservatorium, 299, 602

Degrees B A, 17, 15, 6, 7 B Sc, 7, 11 LL B, 4, 18 M B,
B S, 7, 16, 1, 3 B E, 0, 9 Higher degrees, 6, 12

MELBOURNE (1911-12 and 1921-22) Students 1139, 2476, 196,
500 Including evening students, 81, 231, research, 38, 4

Degrees B A and B Sc, 44, 123 LL B, 15, 35 B Agr Sc and
B V Sc, 4, 4 M B, 57, 59 B D Sc, 9, 12 B Eng, 14, 17 Mus Bac,
3, 2 Higher degrees, 40, 70

QUEENSLAND (1912 and 1922) Students 176, 117, 47, 39

Degrees (1914 and 1922) B A, 16, 31 B Sc, 9, 10 B E, 0, 7
Higher degrees, 0, 4

SYDNEY Students undergraduate, 1300, 2537, 150, 529,
graduate, 60, 106, 20, 55, special, 112, 112

Degrees B A, 71, 122, 31, 65 B Sc, 9, 44, 2, 15 LL B, 10,
30 M B, 14, 112, 0, 16 B E, 13, 37 B D S, 2, 11 B V Sc,
2, 3 B Sc Agr, 0, 3, 0, 1 B Ec, 0, 14, 0, 1 B Arch, 0, 8, 0, 3
Higher degrees, 40, 132, 1, 17

TASMANIA Students undergraduate, 104, 186, graduate, 3, 9,
part-time and occasional, 88, 39

Degrees B A, 2, 15, 0, 8 B Sc, 1, 7 LL B, 2, 3 Higher
degrees, 2, 3, 0, 1

WESTERN AUSTRALIA Students undergraduate, 181, 328, 67,
156, graduate, 3, 13, 1, 8, special, 0, 54

Degrees (1916 and 1923) B A, 13, 44, 6, 29 B Sc, 4, 10, 1, 1
B Sc Agr, 0, 3 B E, 2, 5 Higher degrees, 1, 3

NEW ZEALAND

NEW ZEALAND Degrees B A, 47, 132, 23, 46 B Sc, 6, 45,
0, 11 LL B, 28, 53 M B, Ch B, 9, 66, 0, 11 B D S, 2, 8

B Com , 1, 6 B E , 0, 8. B Sc in Home Science, 0, 5 Higher degrees, 40, 85, 7, 25

Otago. Students 513, 1075, 141, 273. Degrees obtained B A , 23, 40, 12, 12 B Sc , 7, 16, 0, 5 LL B , 4, 3 M B , Ch B , 10, 66, 0, 10. B D S., 2, 10, 0, 1. B Sc in Home Science, 0, 5 B.Com , 0, 1 B Agr , 0, 1 Higher degrees, 19, 26, 4, 2

Canterbury Students matriculated, 315, 580, 132, 111 Non-matriculated, 105, 354, 59, 122 Degrees obtained B A , 21, 31, 2, 7 B Sc , 1, 7, 0, 2 B.Ag , 1, 3 B E , 2, 5 LL B , 2, 5 B Com , 0, 3. Higher degrees, 14, 19, 0, 11

Auckland Students undergraduate, 268, 651, 99, 171, graduate, 19, 51, 9, 9, non-matriculated, 205, 252, 93, 67, exempted from lectures, 18, 91, 6, 10 Degrees obtained B A , 7, 32, 2, 15 B Sc , 2, 9. LL B , 2, 18 B Com , 0, 2 Higher degrees, 9, 19, 2, 2

Victoria Students undergraduate, 351, 606, 129, 175, graduate, 33, 46, 16, 17, occasional, 79, 76, 14, 44, exempted, 49, 108, 10, 23 Degrees obtained B A , 19, 29, 6, 13 B Sc , 2, 13, 1, 3 LL B , 7, 20 Higher degrees, 11, 29, 6, 8

SOUTH AFRICA

CAPE TOWN (in 1912—South African College of Univ of Cape of Good Hope) Students 408, 965, 62, 205 Degrees obtained B A , 28, 68 B Sc , 0, 15 LL B , 0, 6 M B , Ch B , 0, 2 Higher degrees, 0, 19

SOUTH AFRICA and the new UNIVS of CAPE TOWN and STELLENBOSCH which were formerly colleges of the UNIV of CAPE of GOOD HOPE Degrees B A , 106, 219, 27, 69 B Sc , 1, 95, 0, 26 LL B , 6, 31, 0, 1 B Sc Eng , 0, 2 B Sc Ag , 0, 9 B Com , 0, 4 B Econ , 0, 4 M B , Ch B , 0, 2 Higher degrees, 4, 66, 0, 7

Bloemfontein (Grey) Students undergraduate, 83, 224, 16, 68, graduate, 5, 14, 0, 5, part-time and occasional, 4, 15 Degrees obtained B A , 10, 11, 3, 3 B Sc , 0, 9, 0, 2 LL B , 0, 2 M A , 1, 0

Grahamstown (Rhodes) Students undergraduate, 59, 222, graduate, 4, 7 Degrees obtained B A and B Sc , 21, 42 LL B , 0, 3 Higher degrees, 1, 2

Pietermaritzburg (Natal) Students 48, 183, 20, 81 Degrees obtained B A , 6, 7, 2, 5 B Sc , 0, 7, 0, 3 Higher degrees, 0, 7, 0, 1

Potchefstroom (1919 and 1923) Students undergraduate, 39, 114, 1, 24, graduate, 2, 5, 0, 1 Degrees obtained (1919 and 1922) B A , 7, 2 M A , 3, 3

Pretoria (Transvaal) Students 67, 682 Degrees obtained . B A , 4, 28, 1, 4 Other degrees, 0, 38

Wellington (Huguenot) Students 67, 91 Degrees obtained, 8, 15

STELLENBOSCH Students undergraduate, 341, 603, 41, 148, graduate, 26, 99.

COMPARISON OF STUDENT ENROLMENT 693

Degrees B A., 31, 53. B Sc, 0, 24 B Educ, 0, 12. LL B, 0, 3 Higher degrees, 1, 14

WITWATERSRAND (in 1912 the South African School of Mines and Technology, Johannesburg) Students undergraduate, 102, 687, 0, 310, graduate, 0, 20, 0, 7, part-time, 27, 371, occasional, 1, 28

MALTA

MALTA Students full-time, 237, 75, part-time, 7, 12

Degrees (1912-13 and 1921-22) 51, 65

INDIA

ALLAHABAD and the new Univs of ALIGARH, BENARES, LUCKNOW, and NAGPUR, formerly affiliated to it as colleges

Degrees B A, 346, 552, 4, 1 B Sc, 73, 120 LL B, 307, 299. Higher degrees, 75, 259, 6, 6

BOMBAY Degrees B A, 431, 667, 7, 22 B.Sc., 25, 86, 0, 3. LL B, 101, 299 M B, B S and L M and S, 27, 149, 2, 10 B E and L C E, 27, 54 B Ag, 22, 38 B Com, 0, 30 Higher degrees, 61, 57, 1, 5

CALCUTTA and the new Univs of DACCA, PATNA, and RANGOON, formerly affiliated to it as colleges Degrees B A, 758, 2254, 0, 36 B Sc, 168, 383 B L, 282, 625 M B, 3, 156, 0, 2 B E, 16, 12. Higher degrees, 238, 545, 0, 8

MADRAS and the new Univ of MYSORE, the constituent colleges of which were formerly affiliated to Madras Degrees B A, 793, 1351, 0, 55 B Sc, 0, 22 B Com, 0, 10 B L, 171, 232 M B and L M S, 34, 47, 0, 1 B E, 4, 35 Higher degrees, 153, 262, 0, 14

PANJAB and the new Univ of DELHI, the constituent colleges of which were formerly affiliated to the Univ of the Panjab Degrees B A, 175, 650 B Sc, 12, 139 B Sc Agr, 0, 22 B T, 28, 42 M B, 21, 55 LL B, 79, 154 Higher degrees, 30, 86

INDIAN INSTITUTE OF SCIENCE, BANGALORE Students 29, 79

MALAYA

KING EDWARD VII COLLEGE OF MEDICINE, SINGAPORE Students : 87, 155, 3, 5 Diploma of L M S, 14, 21, 0, 2

CHINA

HONG-KONG Students 83, 268, 0, 6

Degrees B A, 0, 17, 0, 1. B.Sc, 0, 8 M.B, B.S, 0, 7.

XXX

UNIVERSITY EXTENSION LECTURERS

[The list shows in brackets the universities and colleges responsible for the lectures. Names of lecturers who are on the staffs of universities in any other capacity and whose names, therefore, are included in the main body of the *Yearbook*, are omitted.]

Adamson, J, B A, M Litt (Nottingham), Anderson, W R, B Mus, L R A M (Lond), Andrew, J B, B Com (Manc), Anstey, Mrs, B Sc (Lond), Armstrong, W E, M A (Camb), Ashton, Miss L, M A (Manc)

Babington, P L, M A (Camb), Baikie, Rev J, F R A S (Ox), Bailey, C W, M A (Liv), Ball, A E, B A (Nottingham), Barkway, Rev J L, M A (Camb), Bartleet, Rev H H M, M A (Camb), Barrett, W C, B A (Swansea), Baskeyfield, G, F R C O (Ox), Bellot, H H, M A (Lond), Begg, Mrs A M G (Durh), Benas, B B, B A, LL D (Liv), Bloor, Rev R H U, B A (Lond, Ox), Boas, G, B A (Ox), Bossavy, Mlle (Lond), Bramley, A, D Sc (Nottingham), Brearley, H, Mus Doc (Manc), Brown, A Barratt, M A (Lond), Bruce, W, B Sc (Manc), Bryan, Rev J I, Ph D (Camb), Bulley, Miss M (Ox), Burdett, A F, M A (Nottingham), Butler, H D, B A (Liv)

Caldwell, Miss J, M A (Durh), Callière, Mlle J L (Lond), Cameron, Miss A M, M A (Ox), Cass, Bingley, M A (Nottingham), Chambers, J D, B A (Nottingham), Compton-Rickett, A, M A, LL D (Lond), Cohen, J L, M A (Camb), Cole, G D H, M A (Lond), Collis, J S, B A (Lond), Corbett, J, B Sc (Manc), Cornush, V, D Sc (Ox), Crosthwaite, Mrs P M (Lond)

Dakyns, A L, L R A M (Lond), David, Illyd, B A, LL B (Swansea, Wales), Davies, D, Ph D (Wales), Davies, D G, M A (Cardiff), Davies, E (Leeds), Davies, R T, M A (Wales), de Vere, G L D (Ox), Dewhurst, Rev A, M A (Lond), Dexter, Miss, L R A M (Lond), Dobson, Mrs D P, B A (Bris), Draper, Rev W H, M A (Camb), Duncan, Rev J, M A (Durh), Dyson, H V D, B A (Ox)

Edwards, I ap D, B A (Wales), Edwards, Rev W, M A (Cardiff), Elder, Rev A E, M A (Ox), Emery, A E (Ox), England, Rev F E, M A, B D (Lond), Epstein, M, M A, Ph D (Lond), Evans, D E, B A (Cardiff)

Fletcher, Sir B, F R I B A (Lond), Fletcher, Mrs Morley (Edin), Fogerty, Miss, L R A M (Lond), Fraser, J A, M A, B E A (Manc)

Gaskell, P, R B A, R E (Lond), Gawthorpe, W, B A (Sheff), Gibson, G W (Leeds), Gillies, W King, M A, B A (Edin), Greenwood, A, M P, B Sc (Lond), Grierson, G K, M A (Nottingham), Griffiths, Rev J, B A, B D (Swansea), Griffiths, T Hughes, M A

(Wales), Griffiths, W. J. (Bangor), Goodwin, A. C., M.A. (Nottingham), Gwynne, G. D., B.A. (Wales)

Hall, F., M.A., B.Com. (Manc.), Hamilton, H., M.A. (Birm.), Harriss, T. W., B.A. (Ox.), Hayter, A. G. K., M.A. (Ox., Camb.), Hazlitt, Miss V., M.A. (Lond.), Henderson, T., Mus. Bac. (Durh.), Heron, Dr. (Leeds), Hesling, A., B.Sc. (Swansea), Holborn, I. B. S., M.A. (Ox., Camb.), Holtby, Miss W., B.A. (Ox.), Holden, E., M.Sc. (Nottingham), Horsburgh, E. L. S., B.A. (Ox.), Howrie, R. J., M.A. (Sheff.), Hurst, Rev. H., M.A. (Camb.), Hurst, S. R., B.A. (Ox.), Hutchinson, Rev. F. E., M.A. (Ox.), Hutchinson, R. W., B.A. (Camb.)

Isaacs, Mrs. S., M.A. (Lond.)

Jackson, Miss A. M., B.A. (Lond.), Joad, C. E. M., B.A. (Lond.), John, Principal I. B., M.A. (Cardiff), Johnson, B., B.A., Mus. Bac., F.R.C.O. (Nottingham), Jones, Caradog (Bangor), Jones, Rev. Fred, B.A. (Cardiff), Jones, Mrs. G. P., M.A. (Liv.), Jones, H. T., M.A. (Nottingham), Jones, Rev. M. H., B.A. (Wales), Jones, Rev. R., B.A. (Bangor)

Kerman, Miss F., B.A. (Nottingham), Kanes Smith, S. C., M.A. (Ox., Camb.), King, J. S., B.Sc. (Nottingham)

Lambert, R. S., B.A. (Lond.), Latham, P. M. S., M.A. (Ox., Camb.), Law, R. (Nottingham), Lee, E. Markham, M.A., Mus. D., F.R.C.O. (Lond., Ox., Camb.), Leigh-Mallory, H. B., M.A. (Lond., Camb.), Lewis, Rev. J. V., M.A., B.D. (Swansea), Lewis, Rev. W., B.A. (Wales), Lott, R. Makepeace, LL.M. (Liv.)

Macalpine, B. I., M.A. (Ox.), McGrath, F. A., B.E. (N.U.I.), McKenzie, Rev. J. G., M.A., B.D. (Nottingham), Mackenzie, Sir W. L., M.A., M.D., LL.D. (Edin.), Macfarlane, Mrs. (Lond.), MacLean, N. A., M.A. (Edin.), McNabb, Rev. Vincent, O. P. (Lond.), Maconochie, R. H. (Edin.), Manchon, J. L., L. ès-L. (Lond.), Martin, B. K., B.A. (Camb.), Matheson, Miss M. C. (Camb.), Matthews, H. Norton, M.A. (Bris.), Middlebrook, S., M.A. (Durh.), Milligan, F. S., M.A. (Birm.), Mitchell, F. L. (Lond.), Moulton, R. G., D.Ph. (Ox.)

Neale, J. E., M.A. (Lond.), Newlove, J. G. (Camb.)

Owen, Sir I., D.C.L., LL.D., M.D. (Bris.), Owen, J., M.A. (Cardiff), Owen, Rev. J. D.

Parmiter, S. C., M.A. (Ox.), Parsons, D. J. F., B.Sc. (Lond.), Parry, D., M.A. (Cardiff), Paxton, Miss E. (Liv.), Peers, Prof. R., M.A. (Nottingham), Peate, I. C., B.A. (Wales), Phillips, Prof. the Rev. D., M.A. (Bangor), Pinto, V. de Sola, M.A. (Nottingham), Preedy, Miss (Leeds), Price, T. W. (Ox.)

Rattray, R. F., M.A., Ph.D. (Camb., Nottingham), Rees, W., B.A. (Nottingham), Richards, D., M.A. (Cardiff), Roberts, E., B.Sc. (Durh.), Roberts, J. H. (Bangor), Roberts, J. Slingsby, M.A. (Ox., Camb.), Robinson, C., M.A. (Manc.), Roper, Miss E. G., B.A. (Liv.), Ross, D. A., B.A. (Ox.), Rowe, J. W. F., B.A., M.Sc. (Camb., Lond.), Rowse, H. C. (Leeds), Runacres, H. F. (Leeds), Rutherford, T. Dixon, M.A. (Durh.)

Sadler, Miss, L.R.A.M. (Lond.), Salt, W. E., B.Com. (Sheff.), Sharp, Mordaunt, M.A. (Lond., Ox.), Simms, Rev. A. E. N., B.D., M.A. (Lond., Ox.), Silverman, H. A., B.A. (Birm.), Smiley, Mrs. M. T.,

M A (Liv), Smith, Rev E A, B Sc (Manc), Smith, R, B Sc (Sheff), Smith, S C K, M A (Ox, Camb), Starkie, Miss E, B A (Dublin), Stephens, D, M A (Nottingham), Stewart, D (Leeds), Stocks, Mrs, B Sc (Ox), Stringer, Mrs F E R (Liv)

Thomas, B B, B A (Wales), Thomas, E, M A (Nottingham), Thomas, J E (Bangor), Thomas, J H (Bangor), Thomas, P S, M A (Swansea), Thompson, Miss E G, B A (Nottingham), Thompson, R S, M A (Lond), Thornley, A, M A (Nottingham), Thornley, Miss I D, M A (Lond), Todd, R, M A, M Litt (Durh), Toone, F (Nottingham), Topham, W H, B Sc (Nottingham), Tratman, E K, L D S (Bris), Trotman, S R, M A, F I C (Nottingham)

Vaughan, H M, M A (Ox), Vos, Philip, B A (Lond)

Wade, Rev S, B A (Durh), Weatherall, Rev J H, M A (Lond), Weaver, C H, M A (Nottingham), West, Miss M S, B D, B A (Lond), Weston, Rev W, M A (Camb), Weston, W J, M A, B Sc (Lond), Whyte, J S, M A (Durh), Whitehorn, A D, M A (Nottingham), Webley, T J, M A (Cardiff), Wilkinson, F H, Mus Doc, A R C M (Liv), Wilkinson, G E (Leeds), Wilkinson, L U, M A (Lond, Ox, Camb), Williams, E (Swansea), Williams, E R, M A (Cardiff), Williams, J, F R C O, A R C M (Bangor), Williams, Rev J F, M A (Camb), Williams, Rev J J (Swansea), Williams, Rev J L, M A, B Sc (Swansea), Wilmore, A, D Sc (Lond), Wiseman, H, M A (Edin), Wood, F H, Mus Doc, A R C M (Liv), Wootten, Mrs B (Lond), Workman, Rev A B, D D, D Lit, M A (Lond)

Yates, Rev. W R, M A (Ox), Yeoman, T R, B A (Durh)

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